

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: P332706-840

Luminaire Tested: **SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332706-840
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-C1195D1205U840-4F0-1E-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

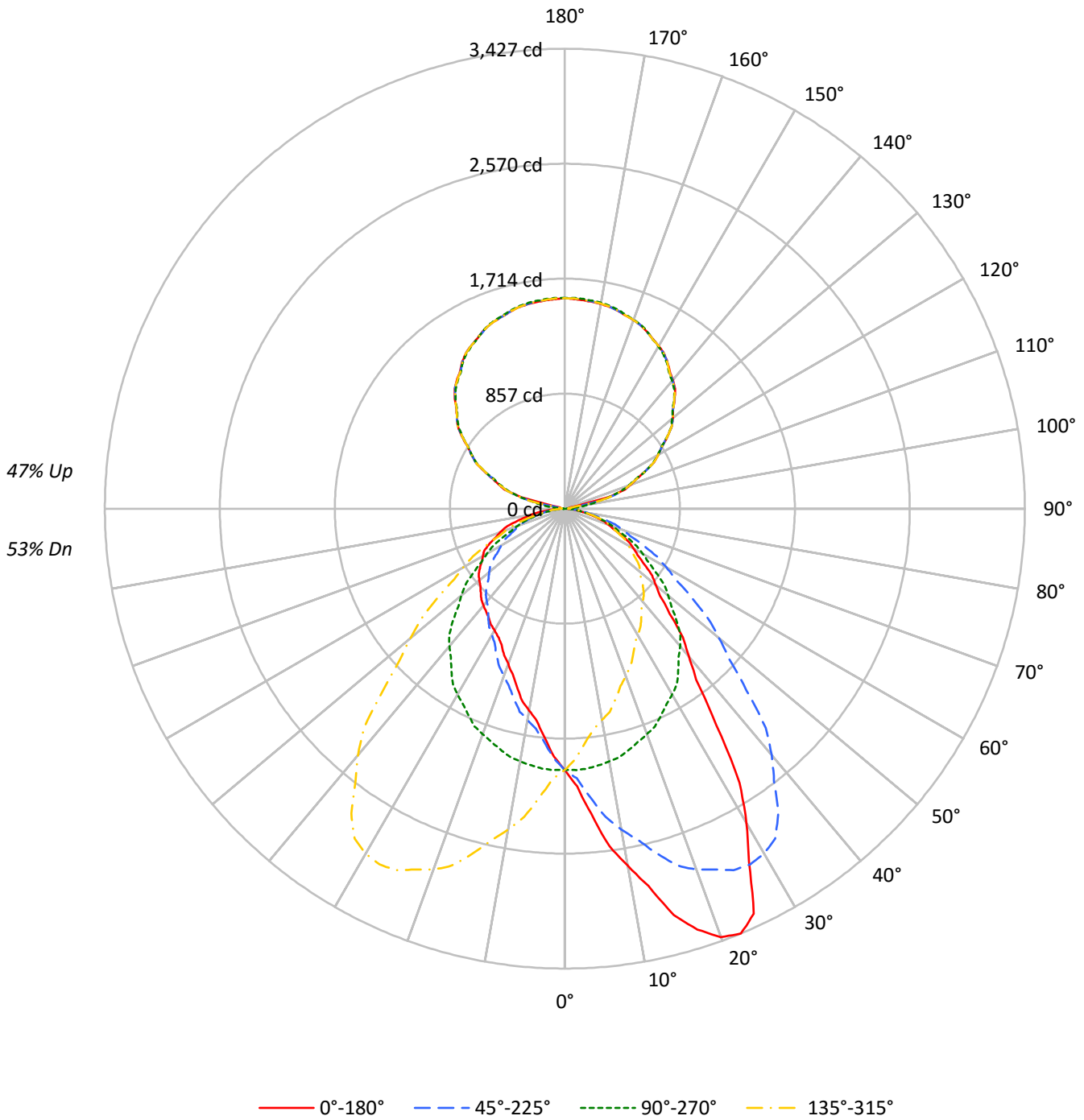
Lumens per Lamp: N/A
Luminaire Lumens: 10227.6 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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°	15713	15713	15713	15713
5°	18504	15754	13904	15754
10°	22155	15684	12518	15684
15°	26213	15525	11496	15525
20°	29190	15364	10584	15364
25°	29661	15126	9954	15126
30°	25239	14897	9755	14897
35°	19404	14526	9758	14526
40°	15125	14089	9941	14089
45°	12611	13431	10107	13431
50°	11099	12627	10451	12627
55°	10169	11667	10871	11667
60°	9529	10805	11378	10805
65°	8871	9841	11798	9841
70°	8108	8889	12066	8889
75°	7243	7820	11918	7820
80°	6072	6406	11544	6406
85°	4483	4631	11060	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.9
10°-20°	584.5	5.7
20°-30°	926.8	9.1
30°-40°	1031.4	10.1
40°-50°	938.9	9.2
50°-60°	767.2	7.5
60°-70°	547.7	5.4
70°-80°	301.6	2.9
80°-90°	86.9	0.8
90°-100°	53.7	0.5
100°-110°	342.1	3.3
110°-120°	654.5	6.4
120°-130°	830.8	8.1
130°-140°	888.9	8.7
140°-150°	831.2	8.1
150°-160°	670.3	6.6
160°-170°	432.4	4.2
170°-180°	149.0	1.5
0°-30°	1700.9	16.6
0°-40°	2732.3	26.7
0°-60°	4438.4	43.4
0°-90°	5374.6	52.6
90°-120°	1050.3	10.3
90°-150°	3601.3	35.2
90°-180°	4853.0	47.5
0°-180°	10227.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1946	1946	1946	1946	1946	
5°	2283	1944	1716	1944	2283	232
15°	3136	1858	1376	1858	3136	886
25°	3330	1698	1118	1698	3330	1468
35°	1969	1474	990	1474	1969	1250
45°	1105	1176	885	1176	1105	870
55°	722	829	772	829	722	653
65°	464	515	618	515	464	460
75°	232	251	382	251	232	247
85°	48	50	119	50	48	60
90°	35	4	35	4	35	17
95°	34	64	34	64	34	27
105°	334	353	334	353	334	292
115°	664	659	664	659	664	657
125°	934	927	934	927	934	832
135°	1158	1150	1158	1150	1158	891
145°	1333	1326	1333	1326	1333	833
155°	1453	1454	1453	1454	1453	670
165°	1527	1534	1527	1534	1527	431
175°	1559	1569	1559	1569	1559	149
180°	1569	1569	1569	1569	1569	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2071.5	2070.8	2064.5	2063.2	2058.6	2052.9	2051.5	2041.2	2020.5	2010.8	2008.3
5°	2283.4	2299.6	2278.6	2274.5	2272.1	2245.5	2231.8	2215.6	2178.6	2156.9	2139.9
7.5°	2536.3	2538.2	2529.0	2521.6	2501.1	2477.9	2443.1	2406.0	2361.8	2315.8	2281.2
10°	2702.7	2709.2	2698.7	2697.0	2655.9	2630.1	2578.5	2535.0	2485.0	2429.3	2378.5
12.5°	2878.1	2869.1	2863.8	2829.2	2821.7	2774.6	2714.6	2669.8	2592.7	2528.7	2461.1
15°	3136.4	3118.8	3107.5	3059.9	3036.5	2971.1	2907.5	2858.3	2757.5	2661.6	2589.0
17.5°	3288.0	3305.8	3279.6	3260.1	3199.7	3153.9	3088.8	2985.6	2906.7	2787.5	2695.9
20°	3397.7	3399.3	3384.8	3364.7	3317.1	3259.0	3188.0	3075.1	2980.8	2862.4	2736.5
22.5°	3427.4	3427.7	3421.5	3402.7	3366.7	3319.6	3248.0	3153.9	3039.6	2910.7	2784.9
25°	3329.9	3326.7	3334.0	3355.0	3341.2	3326.7	3285.6	3215.5	3109.1	2972.7	2837.3
27.5°	2968.1	2990.3	3031.3	3082.9	3132.6	3170.5	3181.2	3166.7	3100.8	2988.8	2846.8
30°	2707.5	2734.9	2765.6	2817.1	2917.2	2974.4	3037.3	3084.8	3058.3	2968.8	2836.5
32.5°	2421.2	2427.9	2473.4	2532.0	2623.6	2733.8	2833.5	2930.0	2962.1	2915.2	2804.9
35°	1968.9	1980.2	2029.4	2087.5	2199.6	2334.2	2484.2	2618.0	2728.5	2772.8	2716.3
37.5°	1606.8	1639.2	1673.9	1736.3	1834.9	1956.2	2112.0	2285.2	2449.8	2560.1	2578.8
40°	1435.2	1455.3	1480.4	1527.9	1611.7	1731.1	1864.9	2063.3	2238.3	2396.3	2447.9
42.5°	1299.7	1311.5	1326.9	1369.9	1433.7	1552.5	1674.7	1849.2	2024.8	2213.7	2300.2
45°	1104.6	1116.7	1142.5	1167.5	1215.9	1298.1	1411.8	1555.3	1731.9	1914.1	2073.8
47.5°	963.7	971.4	986.7	1013.5	1054.6	1108.8	1201.3	1321.2	1484.9	1661.7	1831.9
50°	883.7	890.1	902.2	926.5	957.9	1006.2	1082.1	1194.1	1322.3	1500.5	1667.4
52.5°	820.5	823.0	831.9	848.4	873.3	914.0	976.2	1068.9	1188.1	1347.0	1513.3
55°	722.5	725.7	733.8	745.8	767.6	793.3	840.9	910.3	1014.3	1152.2	1296.5
57.5°	641.8	644.1	650.9	655.5	673.4	694.4	730.9	780.5	859.3	976.2	1105.1
60°	590.2	588.5	596.6	600.7	612.8	630.6	658.7	706.3	774.9	869.2	987.7
62.5°	539.9	537.7	544.4	549.8	556.6	571.8	594.9	632.2	687.7	773.1	875.5
65°	464.4	461.2	465.2	471.7	478.2	486.1	503.1	536.1	580.6	641.8	720.0
67.5°	388.6	392.0	392.6	395.9	399.6	410.6	422.1	445.6	476.9	525.8	592.2
70°	343.5	344.3	347.5	347.5	349.9	359.6	369.3	382.9	413.6	458.8	512.8
72.5°	298.3	301.7	300.4	303.0	304.8	311.2	318.3	331.3	357.5	391.0	436.7
75°	232.2	234.6	234.6	235.4	237.8	240.2	245.9	255.6	274.2	299.1	330.5
77.5°	169.4	169.7	170.8	173.7	173.7	177.5	181.8	189.5	198.6	215.8	235.0
80°	130.6	132.2	131.4	133.0	133.0	136.2	137.8	147.5	151.6	162.9	178.1
82.5°	95.8	97.4	97.3	99.5	100.8	101.4	103.7	107.6	111.6	121.6	127.8
85°	48.4	50.0	48.4	50.0	52.4	53.2	55.6	56.5	59.7	62.1	67.8
87.5°	21.2	23.0	22.9	23.5	24.6	25.1	25.4	24.5	26.8	27.1	29.3
90°	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0	27.4	25.9	23.7
92.5°	32.4	32.3	32.2	32.1	32.0	31.1	29.6	28.0	26.5	24.8	22.8
95°	34.0	33.7	33.5	33.2	33.0	32.1	30.5	29.0	27.4	25.9	25.5
97.5°	32.8	32.6	32.3	32.1	31.8	31.6	31.4	31.3	31.1	31.0	60.1
100°	32.8	32.6	32.3	32.1	31.8	33.9	38.4	42.7	47.2	51.6	87.7
102.5°	33.8	33.7	33.7	33.6	33.6	57.5	105.3	153.1	201.0	248.7	253.5
105°	334.5	343.9	353.1	362.5	371.9	375.5	373.1	370.8	368.5	366.1	364.8
107.5°	466.1	465.0	464.1	463.1	462.1	461.0	459.9	458.8	457.6	456.5	454.6
110°	523.3	522.6	521.8	521.0	520.2	519.6	519.1	518.6	518.0	517.5	515.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	580.6	579.7	578.7	577.6	576.6	576.2	576.3	576.4	576.5	576.6	575.9
115°	664.2	664.2	664.2	664.2	664.2	663.9	663.4	662.9	662.4	661.8	662.1
117.5°	749.1	749.2	749.3	749.4	749.5	749.6	749.7	749.8	749.9	750.0	749.5
120°	802.6	803.1	803.7	804.2	804.7	804.7	804.2	803.7	803.1	802.6	802.8
122.5°	855.2	855.7	856.3	856.8	857.3	857.4	857.1	856.8	856.5	856.2	855.8
125°	934.0	933.8	933.5	933.2	933.0	932.5	931.7	930.9	930.1	929.4	929.9
127.5°	1003.3	1003.5	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.7	1004.9	1003.7
130°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.1	1049.9	1049.6	1049.2	1049.0	1048.2
132.5°	1093.4	1093.6	1093.8	1094.0	1094.2	1094.2	1094.0	1093.7	1093.4	1093.2	1092.2
135°	1158.1	1157.6	1157.1	1156.6	1156.1	1155.6	1155.0	1154.5	1154.0	1153.5	1152.5
137.5°	1213.6	1213.7	1213.9	1214.1	1214.2	1214.0	1213.4	1212.8	1212.2	1211.6	1210.5
140°	1252.0	1251.7	1251.5	1251.2	1251.0	1250.5	1249.7	1248.9	1248.1	1247.4	1246.8
142.5°	1283.9	1283.9	1283.8	1283.8	1283.7	1283.4	1282.8	1282.3	1281.7	1281.1	1280.8
145°	1333.0	1332.5	1331.9	1331.4	1330.9	1330.5	1330.3	1330.0	1329.8	1329.5	1329.5
147.5°	1373.6	1373.3	1373.1	1372.8	1372.5	1372.3	1372.1	1371.9	1371.7	1371.5	1371.7
150°	1399.9	1399.7	1399.4	1399.1	1398.9	1398.7	1398.7	1398.7	1398.7	1398.7	1399.0
152.5°	1422.4	1422.6	1422.7	1422.9	1423.0	1422.9	1422.5	1422.1	1421.7	1421.3	1421.7
155°	1452.7	1453.5	1454.2	1455.0	1455.8	1455.7	1454.6	1453.6	1452.6	1451.5	1452.3
157.5°	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5	1482.1	1480.8	1479.4	1478.0	1478.9
160°	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2	1499.6	1498.0	1496.5	1494.9	1495.2
162.5°	1508.0	1509.8	1511.7	1513.4	1515.2	1515.3	1513.7	1512.2	1510.6	1509.0	1509.2
165°	1526.6	1528.9	1531.3	1533.7	1536.0	1536.1	1534.1	1532.0	1529.8	1527.8	1527.8
167.5°	1540.4	1543.1	1545.7	1548.3	1550.8	1551.1	1548.7	1546.5	1544.2	1541.9	1542.1
170°	1548.9	1551.6	1554.1	1556.7	1559.3	1559.6	1557.5	1555.4	1553.4	1551.3	1551.0
172.5°	1553.6	1556.4	1559.2	1562.1	1564.9	1565.2	1563.2	1561.0	1558.9	1556.9	1556.6
175°	1559.4	1562.6	1565.7	1568.8	1572.0	1572.4	1570.0	1567.7	1565.3	1563.0	1562.8
177.5°	1563.3	1565.7	1568.2	1570.7	1573.3	1573.7	1572.0	1570.3	1568.6	1567.0	1566.6
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2008.9	1999.9	1993.5	1988.3	1974.1	1965.7	1959.2	1950.3	1940.0	1928.9	1915.4
5°	2122.9	2095.6	2075.4	2044.8	2015.7	1991.6	1966.5	1944.0	1916.5	1886.7	1864.9
7.5°	2242.8	2202.0	2149.7	2104.5	2053.5	2009.1	1969.4	1928.8	1886.5	1845.6	1808.1
10°	2318.9	2266.4	2208.4	2139.9	2075.4	2018.1	1964.9	1913.3	1863.3	1813.3	1770.6
12.5°	2400.9	2335.5	2249.7	2169.6	2097.3	2020.7	1956.5	1893.3	1833.0	1780.5	1730.6
15°	2510.8	2416.4	2317.2	2210.0	2114.9	2025.4	1937.5	1857.6	1790.0	1720.6	1672.2
17.5°	2578.4	2461.6	2348.2	2236.1	2121.0	2008.1	1913.3	1821.3	1736.5	1667.6	1606.6
20°	2622.8	2506.8	2365.6	2253.6	2116.5	2000.4	1890.8	1788.4	1699.7	1626.3	1563.4
22.5°	2661.6	2527.4	2386.3	2238.8	2102.3	1979.1	1859.2	1756.1	1665.5	1588.2	1527.9
25°	2682.5	2528.5	2375.3	2228.6	2073.8	1927.8	1819.0	1698.1	1601.2	1519.8	1455.3
27.5°	2684.8	2520.1	2346.8	2183.7	2024.0	1888.0	1750.6	1642.5	1542.1	1456.0	1394.1
30°	2677.7	2506.0	2319.7	2143.1	1982.7	1835.1	1715.8	1598.1	1495.7	1410.2	1345.6
32.5°	2655.1	2476.3	2284.8	2098.0	1931.7	1787.4	1664.2	1552.3	1452.5	1368.3	1300.5
35°	2589.8	2413.2	2209.2	2014.9	1844.8	1698.9	1587.6	1473.9	1373.9	1294.1	1228.8
37.5°	2487.7	2328.0	2120.7	1919.7	1752.5	1606.0	1495.7	1392.9	1302.8	1221.7	1154.8
40°	2398.7	2258.5	2050.4	1854.4	1673.9	1534.4	1431.2	1336.9	1247.3	1170.7	1107.0
42.5°	2296.1	2173.9	1982.1	1774.4	1600.3	1460.2	1359.6	1274.9	1190.5	1119.7	1056.1
45°	2113.2	2032.7	1852.1	1660.1	1478.7	1346.5	1250.5	1176.4	1105.4	1036.1	982.9
47.5°	1903.0	1863.0	1710.9	1528.7	1356.5	1226.2	1143.0	1074.5	1012.2	953.5	906.6
50°	1761.7	1742.4	1610.9	1435.2	1270.7	1148.1	1064.3	1005.4	952.2	900.6	856.3
52.5°	1622.4	1621.7	1503.3	1342.3	1190.1	1072.1	988.9	933.8	887.8	845.8	806.0
55°	1409.4	1432.0	1339.3	1195.7	1059.4	953.0	878.1	828.9	796.6	761.9	732.2
57.5°	1213.8	1251.2	1174.8	1048.3	934.6	836.6	771.3	734.4	700.0	679.0	657.3
60°	1086.1	1121.6	1061.9	955.4	848.2	764.4	702.3	669.2	639.3	624.9	609.6
62.5°	972.5	1004.1	960.0	861.3	768.2	687.6	635.2	603.4	583.3	567.4	557.3
65°	810.3	837.0	799.0	727.3	647.4	583.0	540.2	515.2	495.8	489.4	478.2
67.5°	655.0	679.2	658.7	597.7	533.7	484.9	451.5	427.5	416.1	410.4	402.3
70°	562.8	586.9	565.2	512.0	462.8	421.7	390.2	376.6	364.5	362.0	350.7
72.5°	484.7	501.2	479.4	437.8	395.8	361.0	336.7	322.3	316.1	311.7	305.6
75°	363.7	378.2	363.7	331.3	301.5	277.4	256.4	250.7	243.5	241.1	237.0
77.5°	257.4	269.9	258.8	238.6	216.4	197.7	186.4	179.2	177.5	173.4	175.3
80°	196.7	204.8	194.3	180.6	162.9	150.0	141.9	137.8	133.0	131.4	134.6
82.5°	141.3	144.8	139.5	130.3	117.0	108.7	103.2	98.6	97.6	97.9	97.9
85°	73.4	72.6	71.8	63.7	59.7	54.0	50.8	50.0	49.2	50.8	52.4
87.5°	28.9	29.1	28.0	24.9	22.4	19.9	18.7	17.5	18.7	19.9	21.1
90°	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5	6.4	9.3	12.1
92.5°	20.7	18.6	16.6	15.5	15.2	15.1	14.9	14.7	14.9	15.1	15.2
95°	25.2	25.0	24.7	29.1	38.0	46.8	55.6	64.5	55.6	46.8	38.0
97.5°	89.2	118.3	147.3	159.2	153.6	148.1	142.6	137.0	142.6	148.1	153.6
100°	123.6	159.6	195.6	211.3	206.5	201.9	197.1	192.5	197.1	201.9	206.5
102.5°	258.1	262.9	267.5	268.1	264.7	261.3	257.8	254.4	257.8	261.3	264.7
105°	363.5	362.2	360.9	359.4	357.9	356.3	354.8	353.1	354.8	356.3	357.9
107.5°	452.9	451.1	449.4	448.1	447.3	446.6	445.8	444.9	445.8	446.6	447.3
110°	514.3	512.8	511.2	510.1	509.3	508.5	507.7	507.0	507.7	508.5	509.3



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	575.1	574.4	573.7	572.6	571.2	569.8	568.5	567.0	568.5	569.8	571.2
115°	662.4	662.6	662.9	662.6	661.8	661.1	660.2	659.4	660.2	661.1	661.8
117.5°	748.9	748.3	747.7	746.9	745.9	744.9	743.8	742.8	743.8	744.9	745.9
120°	803.1	803.4	803.7	803.2	802.2	801.2	800.1	799.1	800.1	801.2	802.2
122.5°	855.4	855.1	854.6	854.1	853.5	852.9	852.3	851.6	852.3	852.9	853.5
125°	930.4	930.9	931.4	931.2	930.1	929.1	928.1	927.0	928.1	929.1	930.1
127.5°	1002.5	1001.3	1000.1	999.4	999.2	998.9	998.6	998.4	998.6	998.9	999.2
130°	1047.4	1046.7	1045.9	1045.4	1045.1	1044.9	1044.6	1044.3	1044.6	1044.9	1045.1
132.5°	1091.2	1090.1	1089.2	1088.4	1088.0	1087.5	1087.0	1086.6	1087.0	1087.5	1088.0
135°	1151.3	1150.3	1149.3	1148.9	1149.1	1149.4	1149.7	1149.9	1149.7	1149.4	1149.1
137.5°	1209.4	1208.2	1207.1	1206.5	1206.4	1206.3	1206.2	1206.1	1206.2	1206.3	1206.4
140°	1246.3	1245.8	1245.3	1244.8	1244.3	1243.6	1243.1	1242.6	1243.1	1243.6	1244.3
142.5°	1280.5	1280.2	1279.9	1279.3	1278.3	1277.4	1276.5	1275.5	1276.5	1277.4	1278.3
145°	1329.5	1329.5	1329.5	1329.1	1328.3	1327.6	1326.8	1326.0	1326.8	1327.6	1328.3
147.5°	1372.0	1372.3	1372.5	1371.9	1370.5	1369.0	1367.6	1366.0	1367.6	1369.0	1370.5
150°	1399.3	1399.5	1399.8	1399.4	1398.4	1397.2	1396.2	1395.2	1396.2	1397.2	1398.4
152.5°	1422.2	1422.7	1423.1	1422.9	1422.1	1421.3	1420.5	1419.6	1420.5	1421.3	1422.1
155°	1453.1	1453.9	1454.6	1454.9	1454.6	1454.4	1454.1	1453.9	1454.1	1454.4	1454.6
157.5°	1479.9	1480.7	1481.6	1482.1	1482.3	1482.4	1482.6	1482.7	1482.6	1482.4	1482.3
160°	1495.4	1495.7	1496.0	1496.5	1497.3	1498.0	1498.8	1499.6	1498.8	1498.0	1497.3
162.5°	1509.5	1509.7	1510.1	1510.7	1511.7	1512.7	1513.7	1514.6	1513.7	1512.7	1511.7
165°	1527.8	1527.8	1527.8	1528.4	1529.7	1531.1	1532.4	1533.7	1532.4	1531.1	1529.7
167.5°	1542.2	1542.4	1542.5	1543.3	1544.6	1546.0	1547.3	1548.6	1547.3	1546.0	1544.6
170°	1550.7	1550.4	1550.2	1550.8	1552.5	1554.0	1555.6	1557.1	1555.6	1554.0	1552.5
172.5°	1556.4	1556.1	1555.8	1556.5	1558.0	1559.6	1561.2	1562.8	1561.2	1559.6	1558.0
175°	1562.5	1562.2	1562.0	1562.6	1564.2	1565.7	1567.3	1568.8	1567.3	1565.7	1564.2
177.5°	1566.1	1565.7	1565.3	1565.8	1567.3	1568.7	1570.2	1571.7	1570.2	1568.7	1567.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332706-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1908.9	1903.2	1894.8	1883.2	1873.5	1863.2	1860.6	1856.7	1864.4	1858.1	1856.0
5°	1846.4	1829.5	1807.7	1782.7	1768.2	1747.3	1743.2	1735.2	1727.1	1726.3	1718.2
7.5°	1780.1	1755.2	1726.8	1701.2	1677.7	1654.9	1639.8	1636.6	1624.7	1617.7	1609.6
10°	1737.6	1706.9	1673.9	1649.7	1622.2	1598.1	1581.1	1571.5	1563.4	1554.5	1546.5
12.5°	1687.3	1654.7	1627.4	1601.2	1568.7	1550.3	1522.5	1505.7	1504.1	1504.2	1483.3
15°	1628.7	1596.5	1554.5	1517.4	1499.6	1464.2	1448.9	1429.6	1417.4	1405.3	1395.7
17.5°	1561.8	1521.7	1488.8	1446.3	1412.5	1384.2	1364.1	1352.5	1334.2	1317.2	1304.7
20°	1519.8	1477.1	1442.5	1397.2	1360.2	1325.5	1308.6	1292.5	1278.8	1264.3	1250.5
22.5°	1477.2	1432.6	1390.2	1346.4	1311.8	1275.3	1258.9	1237.0	1224.0	1215.9	1202.1
25°	1410.2	1361.8	1313.4	1271.5	1236.1	1203.8	1182.0	1165.1	1150.5	1144.1	1135.3
27.5°	1337.3	1289.3	1242.5	1194.9	1154.6	1131.3	1113.8	1101.1	1092.7	1084.1	1080.2
30°	1290.9	1240.9	1190.9	1146.5	1109.4	1086.1	1070.0	1061.1	1054.6	1050.6	1046.5
32.5°	1243.7	1194.5	1141.9	1101.4	1068.1	1047.3	1035.1	1026.2	1023.0	1021.6	1020.2
35°	1168.3	1118.3	1070.0	1033.7	1002.2	994.1	983.7	978.9	977.2	982.9	985.3
37.5°	1095.3	1048.8	1004.3	969.2	948.6	936.8	933.2	933.3	939.2	944.1	950.0
40°	1048.1	1003.0	961.1	930.5	911.1	903.8	902.2	906.3	912.7	918.4	924.8
42.5°	1002.4	957.9	919.8	891.1	877.6	870.9	871.9	876.0	884.9	891.9	901.6
45°	931.3	894.1	857.1	833.7	822.4	824.0	824.0	831.3	840.1	850.6	861.1
47.5°	864.3	827.0	796.5	776.8	770.9	769.5	774.1	783.6	796.3	809.2	823.8
50°	819.2	783.8	757.1	739.3	733.0	735.4	741.7	750.6	766.0	782.1	797.4
52.5°	773.4	741.1	716.5	700.0	695.5	699.8	706.3	720.3	733.8	751.1	769.7
55°	702.3	674.9	655.5	643.4	641.8	644.2	651.5	666.8	686.1	707.9	725.7
57.5°	631.5	608.5	590.9	582.5	583.3	585.5	597.4	615.7	636.3	659.5	682.5
60°	583.7	562.8	548.3	541.8	542.6	547.4	562.0	579.0	604.7	627.3	651.5
62.5°	538.6	520.2	506.3	500.6	499.4	510.1	523.9	541.5	567.3	592.5	618.5
65°	466.1	451.5	440.2	437.0	439.4	447.5	465.2	488.6	510.4	536.9	564.4
67.5°	395.1	383.1	375.4	376.9	379.8	391.7	406.6	426.7	451.4	479.0	506.0
70°	349.9	338.6	332.1	333.0	337.8	352.3	365.3	385.4	412.0	440.2	462.8
72.5°	303.5	296.1	290.2	293.7	298.5	308.5	324.6	344.8	368.2	394.5	418.3
75°	233.0	233.0	229.7	232.2	239.4	249.1	261.3	282.2	305.6	326.6	345.9
77.5°	172.9	171.1	173.2	176.1	180.3	191.8	205.6	220.6	238.2	259.1	275.1
80°	132.2	133.0	137.0	141.9	143.5	152.4	166.9	180.6	194.3	212.1	227.4
82.5°	99.4	100.2	102.2	108.4	110.0	119.5	128.9	142.6	155.0	166.9	179.7
85°	54.0	54.0	58.1	60.5	64.5	71.0	76.5	84.6	95.9	104.0	116.1
87.5°	23.6	24.1	27.2	28.9	31.2	34.8	36.5	43.8	46.8	50.3	56.2
90°	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0	30.5	32.1	33.1
92.5°	15.5	16.6	18.6	20.7	22.8	24.8	26.5	28.0	29.6	31.1	32.0
95°	29.1	24.7	25.0	25.2	25.5	25.9	27.4	29.0	30.5	32.1	33.0
97.5°	159.2	147.3	118.3	89.2	60.1	31.0	31.1	31.3	31.4	31.6	31.8
100°	211.3	195.6	159.6	123.6	87.7	51.6	47.2	42.7	38.4	33.9	31.8
102.5°	268.1	267.5	262.9	258.1	253.5	248.7	201.0	153.1	105.3	57.5	33.6
105°	359.4	360.9	362.2	363.5	364.8	366.1	368.5	370.8	373.1	375.5	371.9
107.5°	448.1	449.4	451.1	452.9	454.6	456.5	457.6	458.8	459.9	461.0	462.1
110°	510.1	511.2	512.8	514.3	515.9	517.5	518.0	518.6	519.1	519.6	520.2



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	572.6	573.7	574.4	575.1	575.9	576.6	576.5	576.4	576.3	576.2	576.6
115°	662.6	662.9	662.6	662.4	662.1	661.8	662.4	662.9	663.4	663.9	664.2
117.5°	746.9	747.7	748.3	748.9	749.5	750.0	749.9	749.8	749.7	749.6	749.5
120°	803.2	803.7	803.4	803.1	802.8	802.6	803.1	803.7	804.2	804.7	804.7
122.5°	854.1	854.6	855.1	855.4	855.8	856.2	856.5	856.8	857.1	857.4	857.3
125°	931.2	931.4	930.9	930.4	929.9	929.4	930.1	930.9	931.7	932.5	933.0
127.5°	999.4	1000.1	1001.3	1002.5	1003.7	1004.9	1004.7	1004.6	1004.4	1004.3	1004.1
130°	1045.4	1045.9	1046.7	1047.4	1048.2	1049.0	1049.2	1049.6	1049.9	1050.1	1050.2
132.5°	1088.4	1089.2	1090.1	1091.2	1092.2	1093.2	1093.4	1093.7	1094.0	1094.2	1094.2
135°	1148.9	1149.3	1150.3	1151.3	1152.5	1153.5	1154.0	1154.5	1155.0	1155.6	1156.1
137.5°	1206.5	1207.1	1208.2	1209.4	1210.5	1211.6	1212.2	1212.8	1213.4	1214.0	1214.2
140°	1244.8	1245.3	1245.8	1246.3	1246.8	1247.4	1248.1	1248.9	1249.7	1250.5	1251.0
142.5°	1279.3	1279.9	1280.2	1280.5	1280.8	1281.1	1281.7	1282.3	1282.8	1283.4	1283.7
145°	1329.1	1329.5	1329.5	1329.5	1329.5	1329.5	1329.8	1330.0	1330.3	1330.5	1330.9
147.5°	1371.9	1372.5	1372.3	1372.0	1371.7	1371.5	1371.7	1371.9	1372.1	1372.3	1372.5
150°	1399.4	1399.8	1399.5	1399.3	1399.0	1398.7	1398.7	1398.7	1398.7	1398.7	1398.9
152.5°	1422.9	1423.1	1422.7	1422.2	1421.7	1421.3	1421.7	1422.1	1422.5	1422.9	1423.0
155°	1454.9	1454.6	1453.9	1453.1	1452.3	1451.5	1452.6	1453.6	1454.6	1455.7	1455.8
157.5°	1482.1	1481.6	1480.7	1479.9	1478.9	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5
160°	1496.5	1496.0	1495.7	1495.4	1495.2	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2
162.5°	1510.7	1510.1	1509.7	1509.5	1509.2	1509.0	1510.6	1512.2	1513.7	1515.3	1515.2
165°	1528.4	1527.8	1527.8	1527.8	1527.8	1527.8	1529.8	1532.0	1534.1	1536.1	1536.0
167.5°	1543.3	1542.5	1542.4	1542.2	1542.1	1541.9	1544.2	1546.5	1548.7	1551.1	1550.8
170°	1550.8	1550.2	1550.4	1550.7	1551.0	1551.3	1553.4	1555.4	1557.5	1559.6	1559.3
172.5°	1556.5	1555.8	1556.1	1556.4	1556.6	1556.9	1558.9	1561.0	1563.2	1565.2	1564.9
175°	1562.6	1562.0	1562.2	1562.5	1562.8	1563.0	1565.3	1567.7	1570.0	1572.4	1572.0
177.5°	1565.8	1565.3	1565.7	1566.1	1566.6	1567.0	1568.6	1570.3	1572.0	1573.7	1573.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1854.8	1853.5	1849.0	1848.4	1849.0	1853.5	1854.8	1856.0	1858.1	1864.4	1856.7
5°	1713.3	1709.3	1706.9	1715.8	1706.9	1709.3	1713.3	1718.2	1726.3	1727.1	1735.2
7.5°	1606.8	1603.6	1596.5	1594.2	1596.5	1603.6	1606.8	1609.6	1617.7	1624.7	1636.6
10°	1538.4	1535.2	1528.7	1527.1	1528.7	1535.2	1538.4	1546.5	1554.5	1563.4	1571.5
12.5°	1472.6	1466.1	1464.9	1466.5	1464.9	1466.1	1472.6	1483.3	1504.2	1504.1	1505.7
15°	1385.2	1382.0	1373.1	1375.5	1373.1	1382.0	1385.2	1395.7	1405.3	1417.4	1429.6
17.5°	1299.1	1295.3	1284.4	1293.9	1284.4	1295.3	1299.1	1304.7	1317.2	1334.2	1352.5
20°	1244.9	1238.5	1232.8	1232.0	1232.8	1238.5	1244.9	1250.5	1264.3	1278.8	1292.5
22.5°	1193.3	1187.5	1187.0	1181.7	1187.0	1187.5	1193.3	1202.1	1215.9	1224.0	1237.0
25°	1128.8	1123.2	1121.6	1117.5	1121.6	1123.2	1128.8	1135.3	1144.1	1150.5	1165.1
27.5°	1079.3	1076.5	1073.7	1074.9	1073.7	1076.5	1079.3	1080.2	1084.1	1092.7	1101.1
30°	1048.9	1048.1	1046.5	1046.5	1046.5	1048.1	1048.9	1046.5	1050.6	1054.6	1061.1
32.5°	1023.8	1023.7	1024.6	1024.6	1024.6	1023.7	1023.8	1020.2	1021.6	1023.0	1026.2
35°	988.6	990.9	992.5	990.1	992.5	990.9	988.6	985.3	982.9	977.2	978.9
37.5°	956.5	959.0	961.3	964.0	961.3	959.0	956.5	950.0	944.1	939.2	933.3
40°	932.1	937.8	939.3	943.3	939.3	937.8	932.1	924.8	918.4	912.7	906.3
42.5°	908.9	915.1	919.3	920.1	919.3	915.1	908.9	901.6	891.9	884.9	876.0
45°	873.2	879.7	885.3	885.3	885.3	879.7	873.2	861.1	850.6	840.1	831.3
47.5°	836.3	845.7	851.3	852.7	851.3	845.7	836.3	823.8	809.2	796.3	783.6
50°	811.1	822.4	828.1	832.1	828.1	822.4	811.1	797.4	782.1	766.0	750.6
52.5°	786.6	797.9	805.5	807.6	805.5	797.9	786.6	769.7	751.1	733.8	720.3
55°	744.2	760.3	769.2	772.4	769.2	760.3	744.2	725.7	707.9	686.1	666.8
57.5°	704.2	719.0	729.3	731.7	729.3	719.0	704.2	682.5	659.5	636.3	615.7
60°	673.3	689.3	702.3	704.7	702.3	689.3	673.3	651.5	627.3	604.7	579.0
62.5°	641.7	658.4	670.0	676.3	670.0	658.4	641.7	618.5	592.5	567.3	541.5
65°	586.9	603.9	615.2	617.6	615.2	603.9	586.9	564.4	536.9	510.4	488.6
67.5°	527.4	544.2	551.7	556.3	551.7	544.2	527.4	506.0	479.0	451.4	426.7
70°	485.3	499.1	507.2	511.2	507.2	499.1	485.3	462.8	440.2	412.0	385.4
72.5°	437.7	452.0	461.4	462.1	461.4	452.0	437.7	418.3	394.5	368.2	344.8
75°	364.5	377.4	382.1	382.1	382.1	377.4	364.5	345.9	326.6	305.6	282.2
77.5°	288.5	295.1	301.2	302.6	301.2	295.1	288.5	275.1	259.1	238.2	220.6
80°	239.4	243.5	248.3	248.3	248.3	243.5	239.4	227.4	212.1	194.3	180.6
82.5°	189.1	192.6	197.4	196.7	197.4	192.6	189.1	179.7	166.9	155.0	142.6
85°	114.5	121.8	121.0	119.4	121.0	121.8	114.5	116.1	104.0	95.9	84.6
87.5°	58.4	59.1	61.1	62.5	61.1	59.1	58.4	56.2	50.3	46.8	43.8
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0
92.5°	32.1	32.2	32.3	32.4	32.3	32.2	32.1	32.0	31.1	29.6	28.0
95°	33.2	33.5	33.7	34.0	33.7	33.5	33.2	33.0	32.1	30.5	29.0
97.5°	32.1	32.3	32.6	32.8	32.6	32.3	32.1	31.8	31.6	31.4	31.3
100°	32.1	32.3	32.6	32.8	32.6	32.3	32.1	31.8	33.9	38.4	42.7
102.5°	33.6	33.7	33.7	33.8	33.7	33.7	33.6	33.6	57.5	105.3	153.1
105°	362.5	353.1	343.9	334.5	343.9	353.1	362.5	371.9	375.5	373.1	370.8
107.5°	463.1	464.1	465.0	466.1	465.0	464.1	463.1	462.1	461.0	459.9	458.8
110°	521.0	521.8	522.6	523.3	522.6	521.8	521.0	520.2	519.6	519.1	518.6



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.6	578.7	579.7	580.6	579.7	578.7	577.6	576.6	576.2	576.3	576.4
115°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	663.9	663.4	662.9
117.5°	749.4	749.3	749.2	749.1	749.2	749.3	749.4	749.5	749.6	749.7	749.8
120°	804.2	803.7	803.1	802.6	803.1	803.7	804.2	804.7	804.7	804.2	803.7
122.5°	856.8	856.3	855.7	855.2	855.7	856.3	856.8	857.3	857.4	857.1	856.8
125°	933.2	933.5	933.8	934.0	933.8	933.5	933.2	933.0	932.5	931.7	930.9
127.5°	1003.9	1003.7	1003.5	1003.3	1003.5	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
130°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.1	1049.9	1049.6
132.5°	1094.0	1093.8	1093.6	1093.4	1093.6	1093.8	1094.0	1094.2	1094.2	1094.0	1093.7
135°	1156.6	1157.1	1157.6	1158.1	1157.6	1157.1	1156.6	1156.1	1155.6	1155.0	1154.5
137.5°	1214.1	1213.9	1213.7	1213.6	1213.7	1213.9	1214.1	1214.2	1214.0	1213.4	1212.8
140°	1251.2	1251.5	1251.7	1252.0	1251.7	1251.5	1251.2	1251.0	1250.5	1249.7	1248.9
142.5°	1283.8	1283.8	1283.9	1283.9	1283.9	1283.8	1283.8	1283.7	1283.4	1282.8	1282.3
145°	1331.4	1331.9	1332.5	1333.0	1332.5	1331.9	1331.4	1330.9	1330.5	1330.3	1330.0
147.5°	1372.8	1373.1	1373.3	1373.6	1373.3	1373.1	1372.8	1372.5	1372.3	1372.1	1371.9
150°	1399.1	1399.4	1399.7	1399.9	1399.7	1399.4	1399.1	1398.9	1398.7	1398.7	1398.7
152.5°	1422.9	1422.7	1422.6	1422.4	1422.6	1422.7	1422.9	1423.0	1422.9	1422.5	1422.1
155°	1455.0	1454.2	1453.5	1452.7	1453.5	1454.2	1455.0	1455.8	1455.7	1454.6	1453.6
157.5°	1482.1	1480.8	1479.4	1478.0	1479.4	1480.8	1482.1	1483.5	1483.5	1482.1	1480.8
160°	1499.6	1498.0	1496.5	1494.9	1496.5	1498.0	1499.6	1501.2	1501.2	1499.6	1498.0
162.5°	1513.4	1511.7	1509.8	1508.0	1509.8	1511.7	1513.4	1515.2	1515.3	1513.7	1512.2
165°	1533.7	1531.3	1528.9	1526.6	1528.9	1531.3	1533.7	1536.0	1536.1	1534.1	1532.0
167.5°	1548.3	1545.7	1543.1	1540.4	1543.1	1545.7	1548.3	1550.8	1551.1	1548.7	1546.5
170°	1556.7	1554.1	1551.6	1548.9	1551.6	1554.1	1556.7	1559.3	1559.6	1557.5	1555.4
172.5°	1562.1	1559.2	1556.4	1553.6	1556.4	1559.2	1562.1	1564.9	1565.2	1563.2	1561.0
175°	1568.8	1565.7	1562.6	1559.4	1562.6	1565.7	1568.8	1572.0	1572.4	1570.0	1567.7
177.5°	1570.7	1568.2	1565.7	1563.3	1565.7	1568.2	1570.7	1573.3	1573.7	1572.0	1570.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1860.6	1863.2	1873.5	1883.2	1894.8	1903.2	1908.9	1915.4	1928.9	1940.0	1950.3
5°	1743.2	1747.3	1768.2	1782.7	1807.7	1829.5	1846.4	1864.9	1886.7	1916.5	1944.0
7.5°	1639.8	1654.9	1677.7	1701.2	1726.8	1755.2	1780.1	1808.1	1845.6	1886.5	1928.8
10°	1581.1	1598.1	1622.2	1649.7	1673.9	1706.9	1737.6	1770.6	1813.3	1863.3	1913.3
12.5°	1522.5	1550.3	1568.7	1601.2	1627.4	1654.7	1687.3	1730.6	1780.5	1833.0	1893.3
15°	1448.9	1464.2	1499.6	1517.4	1554.5	1596.5	1628.7	1672.2	1720.6	1790.0	1857.6
17.5°	1364.1	1384.2	1412.5	1446.3	1488.8	1521.7	1561.8	1606.6	1667.6	1736.5	1821.3
20°	1308.6	1325.5	1360.2	1397.2	1442.5	1477.1	1519.8	1563.4	1626.3	1699.7	1788.4
22.5°	1258.9	1275.3	1311.8	1346.4	1390.2	1432.6	1477.2	1527.9	1588.2	1665.5	1756.1
25°	1182.0	1203.8	1236.1	1271.5	1313.4	1361.8	1410.2	1455.3	1519.8	1601.2	1698.1
27.5°	1113.8	1131.3	1154.6	1194.9	1242.5	1289.3	1337.3	1394.1	1456.0	1542.1	1642.5
30°	1070.0	1086.1	1109.4	1146.5	1190.9	1240.9	1290.9	1345.6	1410.2	1495.7	1598.1
32.5°	1035.1	1047.3	1068.1	1101.4	1141.9	1194.5	1243.7	1300.5	1368.3	1452.5	1552.3
35°	983.7	994.1	1002.2	1033.7	1070.0	1118.3	1168.3	1228.8	1294.1	1373.9	1473.9
37.5°	933.2	936.8	948.6	969.2	1004.3	1048.8	1095.3	1154.8	1221.7	1302.8	1392.9
40°	902.2	903.8	911.1	930.5	961.1	1003.0	1048.1	1107.0	1170.7	1247.3	1336.9
42.5°	871.9	870.9	877.6	891.1	919.8	957.9	1002.4	1056.1	1119.7	1190.5	1274.9
45°	824.0	824.0	822.4	833.7	857.1	894.1	931.3	982.9	1036.1	1105.4	1176.4
47.5°	774.1	769.5	770.9	776.8	796.5	827.0	864.3	906.6	953.5	1012.2	1074.5
50°	741.7	735.4	733.0	739.3	757.1	783.8	819.2	856.3	900.6	952.2	1005.4
52.5°	706.3	699.8	695.5	700.0	716.5	741.1	773.4	806.0	845.8	887.8	933.8
55°	651.5	644.2	641.8	643.4	655.5	674.9	702.3	732.2	761.9	796.6	828.9
57.5°	597.4	585.5	583.3	582.5	590.9	608.5	631.5	657.3	679.0	700.0	734.4
60°	562.0	547.4	542.6	541.8	548.3	562.8	583.7	609.6	624.9	639.3	669.2
62.5°	523.9	510.1	499.4	500.6	506.3	520.2	538.6	557.3	567.4	583.3	603.4
65°	465.2	447.5	439.4	437.0	440.2	451.5	466.1	478.2	489.4	495.8	515.2
67.5°	406.6	391.7	379.8	376.9	375.4	383.1	395.1	402.3	410.4	416.1	427.5
70°	365.3	352.3	337.8	333.0	332.1	338.6	349.9	350.7	362.0	364.5	376.6
72.5°	324.6	308.5	298.5	293.7	290.2	296.1	303.5	305.6	311.7	316.1	322.3
75°	261.3	249.1	239.4	232.2	229.7	233.0	233.0	237.0	241.1	243.5	250.7
77.5°	205.6	191.8	180.3	176.1	173.2	171.1	172.9	175.3	173.4	177.5	179.2
80°	166.9	152.4	143.5	141.9	137.0	133.0	132.2	134.6	131.4	133.0	137.8
82.5°	128.9	119.5	110.0	108.4	102.2	100.2	99.4	97.9	97.9	97.6	98.6
85°	76.5	71.0	64.5	60.5	58.1	54.0	54.0	52.4	50.8	49.2	50.0
87.5°	36.5	34.8	31.2	28.9	27.2	24.1	23.6	21.1	19.9	18.7	17.5
90°	27.4	25.9	23.7	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5
92.5°	26.5	24.8	22.8	20.7	18.6	16.6	15.5	15.2	15.1	14.9	14.7
95°	27.4	25.9	25.5	25.2	25.0	24.7	29.1	38.0	46.8	55.6	64.5
97.5°	31.1	31.0	60.1	89.2	118.3	147.3	159.2	153.6	148.1	142.6	137.0
100°	47.2	51.6	87.7	123.6	159.6	195.6	211.3	206.5	201.9	197.1	192.5
102.5°	201.0	248.7	253.5	258.1	262.9	267.5	268.1	264.7	261.3	257.8	254.4
105°	368.5	366.1	364.8	363.5	362.2	360.9	359.4	357.9	356.3	354.8	353.1
107.5°	457.6	456.5	454.6	452.9	451.1	449.4	448.1	447.3	446.6	445.8	444.9
110°	518.0	517.5	515.9	514.3	512.8	511.2	510.1	509.3	508.5	507.7	507.0



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	576.5	576.6	575.9	575.1	574.4	573.7	572.6	571.2	569.8	568.5	567.0
115°	662.4	661.8	662.1	662.4	662.6	662.9	662.6	661.8	661.1	660.2	659.4
117.5°	749.9	750.0	749.5	748.9	748.3	747.7	746.9	745.9	744.9	743.8	742.8
120°	803.1	802.6	802.8	803.1	803.4	803.7	803.2	802.2	801.2	800.1	799.1
122.5°	856.5	856.2	855.8	855.4	855.1	854.6	854.1	853.5	852.9	852.3	851.6
125°	930.1	929.4	929.9	930.4	930.9	931.4	931.2	930.1	929.1	928.1	927.0
127.5°	1004.7	1004.9	1003.7	1002.5	1001.3	1000.1	999.4	999.2	998.9	998.6	998.4
130°	1049.2	1049.0	1048.2	1047.4	1046.7	1045.9	1045.4	1045.1	1044.9	1044.6	1044.3
132.5°	1093.4	1093.2	1092.2	1091.2	1090.1	1089.2	1088.4	1088.0	1087.5	1087.0	1086.6
135°	1154.0	1153.5	1152.5	1151.3	1150.3	1149.3	1148.9	1149.1	1149.4	1149.7	1149.9
137.5°	1212.2	1211.6	1210.5	1209.4	1208.2	1207.1	1206.5	1206.4	1206.3	1206.2	1206.1
140°	1248.1	1247.4	1246.8	1246.3	1245.8	1245.3	1244.8	1244.3	1243.6	1243.1	1242.6
142.5°	1281.7	1281.1	1280.8	1280.5	1280.2	1279.9	1279.3	1278.3	1277.4	1276.5	1275.5
145°	1329.8	1329.5	1329.5	1329.5	1329.5	1329.5	1329.1	1328.3	1327.6	1326.8	1326.0
147.5°	1371.7	1371.5	1371.7	1372.0	1372.3	1372.5	1371.9	1370.5	1369.0	1367.6	1366.0
150°	1398.7	1398.7	1399.0	1399.3	1399.5	1399.8	1399.4	1398.4	1397.2	1396.2	1395.2
152.5°	1421.7	1421.3	1421.7	1422.2	1422.7	1423.1	1422.9	1422.1	1421.3	1420.5	1419.6
155°	1452.6	1451.5	1452.3	1453.1	1453.9	1454.6	1454.9	1454.6	1454.4	1454.1	1453.9
157.5°	1479.4	1478.0	1478.9	1479.9	1480.7	1481.6	1482.1	1482.3	1482.4	1482.6	1482.7
160°	1496.5	1494.9	1495.2	1495.4	1495.7	1496.0	1496.5	1497.3	1498.0	1498.8	1499.6
162.5°	1510.6	1509.0	1509.2	1509.5	1509.7	1510.1	1510.7	1511.7	1512.7	1513.7	1514.6
165°	1529.8	1527.8	1527.8	1527.8	1527.8	1527.8	1528.4	1529.7	1531.1	1532.4	1533.7
167.5°	1544.2	1541.9	1542.1	1542.2	1542.4	1542.5	1543.3	1544.6	1546.0	1547.3	1548.6
170°	1553.4	1551.3	1551.0	1550.7	1550.4	1550.2	1550.8	1552.5	1554.0	1555.6	1557.1
172.5°	1558.9	1556.9	1556.6	1556.4	1556.1	1555.8	1556.5	1558.0	1559.6	1561.2	1562.8
175°	1565.3	1563.0	1562.8	1562.5	1562.2	1562.0	1562.6	1564.2	1565.7	1567.3	1568.8
177.5°	1568.6	1567.0	1566.6	1566.1	1565.7	1565.3	1565.8	1567.3	1568.7	1570.2	1571.7
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



TEST NUMBER: P332706-840

CATALOG NUMBER: SA4XXDIP-C1195D1205U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1959.2	1965.7	1974.1	1988.3	1993.5	1999.9	2008.9	2008.3	2010.8	2020.5	2041.2
5°	1966.5	1991.6	2015.7	2044.8	2075.4	2095.6	2122.9	2139.9	2156.9	2178.6	2215.6
7.5°	1969.4	2009.1	2053.5	2104.5	2149.7	2202.0	2242.8	2281.2	2315.8	2361.8	2406.0
10°	1964.9	2018.1	2075.4	2139.9	2208.4	2266.4	2318.9	2378.5	2429.3	2485.0	2535.0
12.5°	1956.5	2020.7	2097.3	2169.6	2249.7	2335.5	2400.9	2461.1	2528.7	2592.7	2669.8
15°	1937.5	2025.4	2114.9	2210.0	2317.2	2416.4	2510.8	2589.0	2661.6	2757.5	2858.3
17.5°	1913.3	2008.1	2121.0	2236.1	2348.2	2461.6	2578.4	2695.9	2787.5	2906.7	2985.6
20°	1890.8	2000.4	2116.5	2253.6	2365.6	2506.8	2622.8	2736.5	2862.4	2980.8	3075.1
22.5°	1859.2	1979.1	2102.3	2238.8	2386.3	2527.4	2661.6	2784.9	2910.7	3039.6	3153.9
25°	1819.0	1927.8	2073.8	2228.6	2375.3	2528.5	2682.5	2837.3	2972.7	3109.1	3215.5
27.5°	1750.6	1888.0	2024.0	2183.7	2346.8	2520.1	2684.8	2846.8	2988.8	3100.8	3166.7
30°	1715.8	1835.1	1982.7	2143.1	2319.7	2506.0	2677.7	2836.5	2968.8	3058.3	3084.8
32.5°	1664.2	1787.4	1931.7	2098.0	2284.8	2476.3	2655.1	2804.9	2915.2	2962.1	2930.0
35°	1587.6	1698.9	1844.8	2014.9	2209.2	2413.2	2589.8	2716.3	2772.8	2728.5	2618.0
37.5°	1495.7	1606.0	1752.5	1919.7	2120.7	2328.0	2487.7	2578.8	2560.1	2449.8	2285.2
40°	1431.2	1534.4	1673.9	1854.4	2050.4	2258.5	2398.7	2447.9	2396.3	2238.3	2063.3
42.5°	1359.6	1460.2	1600.3	1774.4	1982.1	2173.9	2296.1	2300.2	2213.7	2024.8	1849.2
45°	1250.5	1346.5	1478.7	1660.1	1852.1	2032.7	2113.2	2073.8	1914.1	1731.9	1555.3
47.5°	1143.0	1226.2	1356.5	1528.7	1710.9	1863.0	1903.0	1831.9	1661.7	1484.9	1321.2
50°	1064.3	1148.1	1270.7	1435.2	1610.9	1742.4	1761.7	1667.4	1500.5	1322.3	1194.1
52.5°	988.9	1072.1	1190.1	1342.3	1503.3	1621.7	1622.4	1513.3	1347.0	1188.1	1068.9
55°	878.1	953.0	1059.4	1195.7	1339.3	1432.0	1409.4	1296.5	1152.2	1014.3	910.3
57.5°	771.3	836.6	934.6	1048.3	1174.8	1251.2	1213.8	1105.1	976.2	859.3	780.5
60°	702.3	764.4	848.2	955.4	1061.9	1121.6	1086.1	987.7	869.2	774.9	706.3
62.5°	635.2	687.6	768.2	861.3	960.0	1004.1	972.5	875.5	773.1	687.7	632.2
65°	540.2	583.0	647.4	727.3	799.0	837.0	810.3	720.0	641.8	580.6	536.1
67.5°	451.5	484.9	533.7	597.7	658.7	679.2	655.0	592.2	525.8	476.9	445.6
70°	390.2	421.7	462.8	512.0	565.2	586.9	562.8	512.8	458.8	413.6	382.9
72.5°	336.7	361.0	395.8	437.8	479.4	501.2	484.7	436.7	391.0	357.5	331.3
75°	256.4	277.4	301.5	331.3	363.7	378.2	363.7	330.5	299.1	274.2	255.6
77.5°	186.4	197.7	216.4	238.6	258.8	269.9	257.4	235.0	215.8	198.6	189.5
80°	141.9	150.0	162.9	180.6	194.3	204.8	196.7	178.1	162.9	151.6	147.5
82.5°	103.2	108.7	117.0	130.3	139.5	144.8	141.3	127.8	121.6	111.6	107.6
85°	50.8	54.0	59.7	63.7	71.8	72.6	73.4	67.8	62.1	59.7	56.5
87.5°	18.7	19.9	22.4	24.9	28.0	29.1	28.9	29.3	27.1	26.8	24.5
90°	6.4	9.3	12.1	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0
92.5°	14.9	15.1	15.2	15.5	16.6	18.6	20.7	22.8	24.8	26.5	28.0
95°	55.6	46.8	38.0	29.1	24.7	25.0	25.2	25.5	25.9	27.4	29.0
97.5°	142.6	148.1	153.6	159.2	147.3	118.3	89.2	60.1	31.0	31.1	31.3
100°	197.1	201.9	206.5	211.3	195.6	159.6	123.6	87.7	51.6	47.2	42.7
102.5°	257.8	261.3	264.7	268.1	267.5	262.9	258.1	253.5	248.7	201.0	153.1
105°	354.8	356.3	357.9	359.4	360.9	362.2	363.5	364.8	366.1	368.5	370.8
107.5°	445.8	446.6	447.3	448.1	449.4	451.1	452.9	454.6	456.5	457.6	458.8
110°	507.7	508.5	509.3	510.1	511.2	512.8	514.3	515.9	517.5	518.0	518.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.5	569.8	571.2	572.6	573.7	574.4	575.1	575.9	576.6	576.5	576.4
115°	660.2	661.1	661.8	662.6	662.9	662.6	662.4	662.1	661.8	662.4	662.9
117.5°	743.8	744.9	745.9	746.9	747.7	748.3	748.9	749.5	750.0	749.9	749.8
120°	800.1	801.2	802.2	803.2	803.7	803.4	803.1	802.8	802.6	803.1	803.7
122.5°	852.3	852.9	853.5	854.1	854.6	855.1	855.4	855.8	856.2	856.5	856.8
125°	928.1	929.1	930.1	931.2	931.4	930.9	930.4	929.9	929.4	930.1	930.9
127.5°	998.6	998.9	999.2	999.4	1000.1	1001.3	1002.5	1003.7	1004.9	1004.7	1004.6
130°	1044.6	1044.9	1045.1	1045.4	1045.9	1046.7	1047.4	1048.2	1049.0	1049.2	1049.6
132.5°	1087.0	1087.5	1088.0	1088.4	1089.2	1090.1	1091.2	1092.2	1093.2	1093.4	1093.7
135°	1149.7	1149.4	1149.1	1148.9	1149.3	1150.3	1151.3	1152.5	1153.5	1154.0	1154.5
137.5°	1206.2	1206.3	1206.4	1206.5	1207.1	1208.2	1209.4	1210.5	1211.6	1212.2	1212.8
140°	1243.1	1243.6	1244.3	1244.8	1245.3	1245.8	1246.3	1246.8	1247.4	1248.1	1248.9
142.5°	1276.5	1277.4	1278.3	1279.3	1279.9	1280.2	1280.5	1280.8	1281.1	1281.7	1282.3
145°	1326.8	1327.6	1328.3	1329.1	1329.5	1329.5	1329.5	1329.5	1329.5	1329.8	1330.0
147.5°	1367.6	1369.0	1370.5	1371.9	1372.5	1372.3	1372.0	1371.7	1371.5	1371.7	1371.9
150°	1396.2	1397.2	1398.4	1399.4	1399.8	1399.5	1399.3	1399.0	1398.7	1398.7	1398.7
152.5°	1420.5	1421.3	1422.1	1422.9	1423.1	1422.7	1422.2	1421.7	1421.3	1421.7	1422.1
155°	1454.1	1454.4	1454.6	1454.9	1454.6	1453.9	1453.1	1452.3	1451.5	1452.6	1453.6
157.5°	1482.6	1482.4	1482.3	1482.1	1481.6	1480.7	1479.9	1478.9	1478.0	1479.4	1480.8
160°	1498.8	1498.0	1497.3	1496.5	1496.0	1495.7	1495.4	1495.2	1494.9	1496.5	1498.0
162.5°	1513.7	1512.7	1511.7	1510.7	1510.1	1509.7	1509.5	1509.2	1509.0	1510.6	1512.2
165°	1532.4	1531.1	1529.7	1528.4	1527.8	1527.8	1527.8	1527.8	1527.8	1529.8	1532.0
167.5°	1547.3	1546.0	1544.6	1543.3	1542.5	1542.4	1542.2	1542.1	1541.9	1544.2	1546.5
170°	1555.6	1554.0	1552.5	1550.8	1550.2	1550.4	1550.7	1551.0	1551.3	1553.4	1555.4
172.5°	1561.2	1559.6	1558.0	1556.5	1555.8	1556.1	1556.4	1556.6	1556.9	1558.9	1561.0
175°	1567.3	1565.7	1564.2	1562.6	1562.0	1562.2	1562.5	1562.8	1563.0	1565.3	1567.7
177.5°	1570.2	1568.7	1567.3	1565.8	1565.3	1565.7	1566.1	1566.6	1567.0	1568.6	1570.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	2051.5	2052.9	2058.6	2063.2	2064.5	2070.8	2071.5
5°	2231.8	2245.5	2272.1	2274.5	2278.6	2299.6	2283.4
7.5°	2443.1	2477.9	2501.1	2521.6	2529.0	2538.2	2536.3
10°	2578.5	2630.1	2655.9	2697.0	2698.7	2709.2	2702.7
12.5°	2714.6	2774.6	2821.7	2829.2	2863.8	2869.1	2878.1
15°	2907.5	2971.1	3036.5	3059.9	3107.5	3118.8	3136.4
17.5°	3088.8	3153.9	3199.7	3260.1	3279.6	3305.8	3288.0
20°	3188.0	3259.0	3317.1	3364.7	3384.8	3399.3	3397.7
22.5°	3248.0	3319.6	3366.7	3402.7	3421.5	3427.7	3427.4
25°	3285.6	3326.7	3341.2	3355.0	3334.0	3326.7	3329.9
27.5°	3181.2	3170.5	3132.6	3082.9	3031.3	2990.3	2968.1
30°	3037.3	2974.4	2917.2	2817.1	2765.6	2734.9	2707.5
32.5°	2833.5	2733.8	2623.6	2532.0	2473.4	2427.9	2421.2
35°	2484.2	2334.2	2199.6	2087.5	2029.4	1980.2	1968.9
37.5°	2112.0	1956.2	1834.9	1736.3	1673.9	1639.2	1606.8
40°	1864.9	1731.1	1611.7	1527.9	1480.4	1455.3	1435.2
42.5°	1674.7	1552.5	1433.7	1369.9	1326.9	1311.5	1299.7
45°	1411.8	1298.1	1215.9	1167.5	1142.5	1116.7	1104.6
47.5°	1201.3	1108.8	1054.6	1013.5	986.7	971.4	963.7
50°	1082.1	1006.2	957.9	926.5	902.2	890.1	883.7
52.5°	976.2	914.0	873.3	848.4	831.9	823.0	820.5
55°	840.9	793.3	767.6	745.8	733.8	725.7	722.5
57.5°	730.9	694.4	673.4	655.5	650.9	644.1	641.8
60°	658.7	630.6	612.8	600.7	596.6	588.5	590.2
62.5°	594.9	571.8	556.6	549.8	544.4	537.7	539.9
65°	503.1	486.1	478.2	471.7	465.2	461.2	464.4
67.5°	422.1	410.6	399.6	395.9	392.6	392.0	388.6
70°	369.3	359.6	349.9	347.5	347.5	344.3	343.5
72.5°	318.3	311.2	304.8	303.0	300.4	301.7	298.3
75°	245.9	240.2	237.8	235.4	234.6	234.6	232.2
77.5°	181.8	177.5	173.7	173.7	170.8	169.7	169.4
80°	137.8	136.2	133.0	133.0	131.4	132.2	130.6
82.5°	103.7	101.4	100.8	99.5	97.3	97.4	95.8
85°	55.6	53.2	52.4	50.0	48.4	50.0	48.4
87.5°	25.4	25.1	24.6	23.5	22.9	23.0	21.2
90°	30.5	32.1	33.1	33.6	34.1	34.6	35.2
92.5°	29.6	31.1	32.0	32.1	32.2	32.3	32.4
95°	30.5	32.1	33.0	33.2	33.5	33.7	34.0
97.5°	31.4	31.6	31.8	32.1	32.3	32.6	32.8
100°	38.4	33.9	31.8	32.1	32.3	32.6	32.8
102.5°	105.3	57.5	33.6	33.6	33.7	33.7	33.8
105°	373.1	375.5	371.9	362.5	353.1	343.9	334.5
107.5°	459.9	461.0	462.1	463.1	464.1	465.0	466.1
110°	519.1	519.6	520.2	521.0	521.8	522.6	523.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	576.3	576.2	576.6	577.6	578.7	579.7	580.6
115°	663.4	663.9	664.2	664.2	664.2	664.2	664.2
117.5°	749.7	749.6	749.5	749.4	749.3	749.2	749.1
120°	804.2	804.7	804.7	804.2	803.7	803.1	802.6
122.5°	857.1	857.4	857.3	856.8	856.3	855.7	855.2
125°	931.7	932.5	933.0	933.2	933.5	933.8	934.0
127.5°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.5	1003.3
130°	1049.9	1050.1	1050.2	1050.2	1050.2	1050.2	1050.2
132.5°	1094.0	1094.2	1094.2	1094.0	1093.8	1093.6	1093.4
135°	1155.0	1155.6	1156.1	1156.6	1157.1	1157.6	1158.1
137.5°	1213.4	1214.0	1214.2	1214.1	1213.9	1213.7	1213.6
140°	1249.7	1250.5	1251.0	1251.2	1251.5	1251.7	1252.0
142.5°	1282.8	1283.4	1283.7	1283.8	1283.8	1283.9	1283.9
145°	1330.3	1330.5	1330.9	1331.4	1331.9	1332.5	1333.0
147.5°	1372.1	1372.3	1372.5	1372.8	1373.1	1373.3	1373.6
150°	1398.7	1398.7	1398.9	1399.1	1399.4	1399.7	1399.9
152.5°	1422.5	1422.9	1423.0	1422.9	1422.7	1422.6	1422.4
155°	1454.6	1455.7	1455.8	1455.0	1454.2	1453.5	1452.7
157.5°	1482.1	1483.5	1483.5	1482.1	1480.8	1479.4	1478.0
160°	1499.6	1501.2	1501.2	1499.6	1498.0	1496.5	1494.9
162.5°	1513.7	1515.3	1515.2	1513.4	1511.7	1509.8	1508.0
165°	1534.1	1536.1	1536.0	1533.7	1531.3	1528.9	1526.6
167.5°	1548.7	1551.1	1550.8	1548.3	1545.7	1543.1	1540.4
170°	1557.5	1559.6	1559.3	1556.7	1554.1	1551.6	1548.9
172.5°	1563.2	1565.2	1564.9	1562.1	1559.2	1556.4	1553.6
175°	1570.0	1572.4	1572.0	1568.8	1565.7	1562.6	1559.4
177.5°	1572.0	1573.7	1573.3	1570.7	1568.2	1565.7	1563.3
180°	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8	1568.8

(END OF REPORT)