

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: P332652

Luminaire Tested: **S124DIP-S1020D1035U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1035U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8736.8 lumens
Efficiency: N/A
Efficacy: 144.4 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

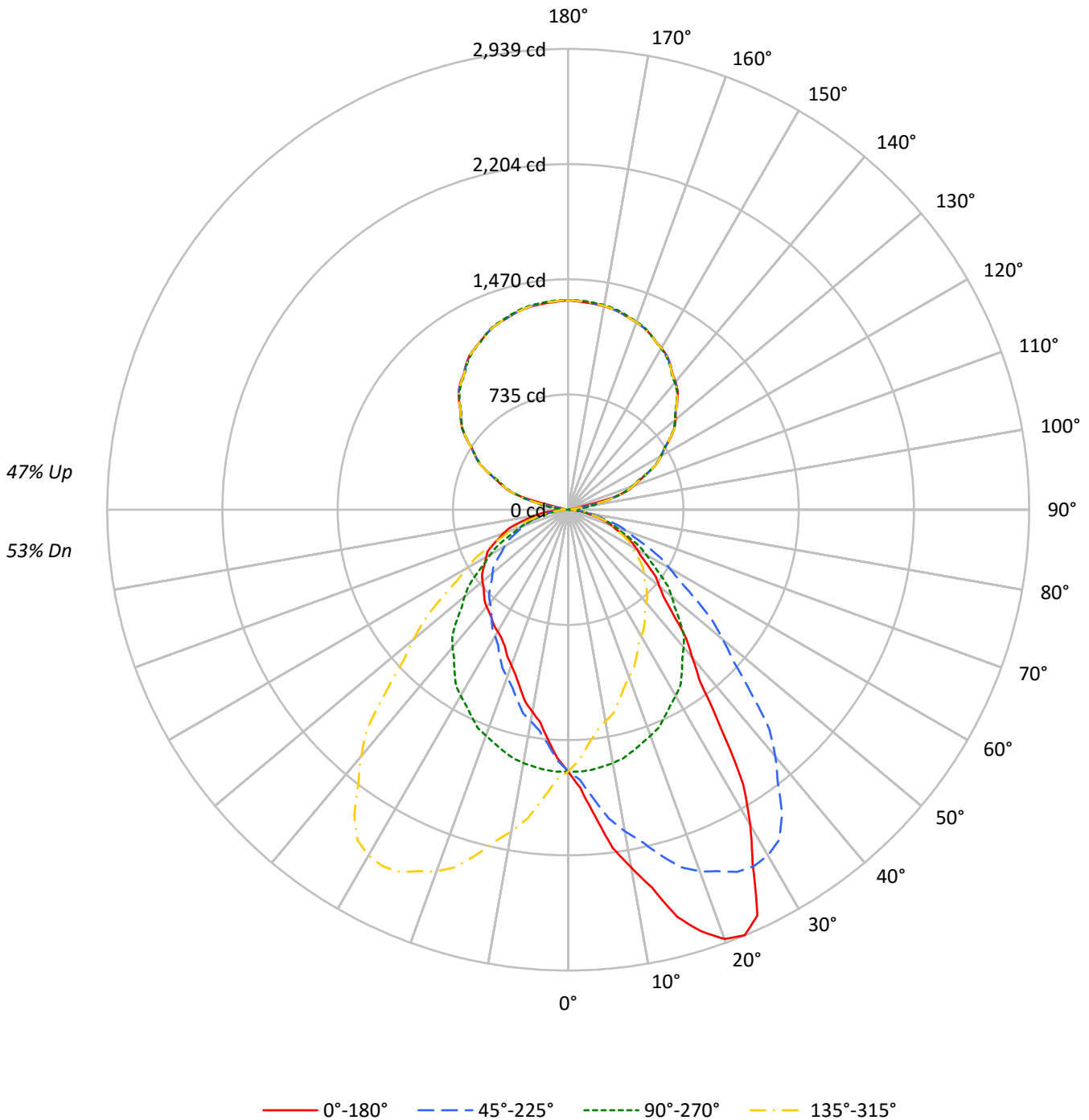
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45				
2	90	83	77	72	83	77	72	67	66	62	58	56	53	50	46	44	42	38				
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	32				
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28				
5	69	58	50	44	64	54	47	41	47	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	26	22	20	17				
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16				
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13472	13472	13472	13472
5°	15866	13507	11921	13507
10°	18996	13448	10733	13448
15°	22476	13312	9857	13312
20°	25027	13173	9075	13173
25°	25432	12968	8535	12968
30°	21640	12773	8364	12773
35°	16638	12454	8366	12454
40°	12968	12079	8524	12079
45°	10813	11515	8667	11515
50°	9516	10827	8960	10827
55°	8718	10003	9322	10003
60°	8170	9265	9755	9265
65°	7607	8437	10115	8437
70°	6951	7619	10346	7619
75°	6210	6706	10221	6706
80°	5207	5495	9898	5495
85°	3844	3974	9476	3974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	1.9
10°-20°	501.1	5.7
20°-30°	794.6	9.1
30°-40°	884.3	10.1
40°-50°	805.0	9.2
50°-60°	657.8	7.5
60°-70°	469.6	5.4
70°-80°	258.6	3.0
80°-90°	74.5	0.9
90°-100°	45.7	0.5
100°-110°	291.1	3.3
110°-120°	556.8	6.4
120°-130°	706.8	8.1
130°-140°	756.2	8.7
140°-150°	707.2	8.1
150°-160°	570.3	6.5
160°-170°	367.8	4.2
170°-180°	126.8	1.5
0°-30°	1458.3	16.7
0°-40°	2342.7	26.8
0°-60°	3805.5	43.6
0°-90°	4608.2	52.7
90°-120°	893.5	10.2
90°-150°	3063.7	35.1
90°-180°	4129.0	47.3
0°-180°	8736.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1669	1669	1669	1669	1669	
5°	1958	1667	1471	1667	1958	199
15°	2689	1593	1179	1593	2689	760
25°	2855	1456	958	1456	2855	1259
35°	1688	1264	849	1264	1688	1072
45°	947	1009	759	1009	947	746
55°	619	711	662	711	619	560
65°	398	442	530	442	398	394
75°	199	215	328	215	199	212
85°	42	43	102	43	42	51
90°	30	3	30	3	30	14
95°	29	55	29	55	29	23
105°	284	300	284	300	284	248
115°	565	561	565	561	565	559
125°	795	789	795	789	795	708
135°	985	978	985	978	985	758
145°	1134	1128	1134	1128	1134	709
155°	1236	1237	1236	1237	1236	570
165°	1299	1305	1299	1305	1299	367
175°	1327	1335	1327	1335	1327	126
180°	1335	1335	1335	1335	1335	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1776.1	1775.6	1770.0	1768.9	1765.0	1760.1	1759.0	1750.1	1732.4	1724.1	1721.9
5°	1957.8	1971.6	1953.6	1950.2	1948.1	1925.3	1913.5	1899.7	1867.9	1849.2	1834.7
7.5°	2174.6	2176.2	2168.4	2162.0	2144.4	2124.5	2094.7	2062.9	2025.0	1985.6	1955.8
10°	2317.3	2322.8	2313.8	2312.4	2277.2	2255.0	2210.8	2173.5	2130.6	2082.9	2039.4
12.5°	2467.7	2459.9	2455.4	2425.8	2419.3	2378.9	2327.5	2289.1	2223.0	2168.1	2110.1
15°	2689.2	2674.0	2664.3	2623.5	2603.5	2547.5	2492.8	2450.7	2364.3	2282.0	2219.8
17.5°	2819.1	2834.4	2812.0	2795.2	2743.4	2704.1	2648.3	2559.8	2492.2	2390.0	2311.5
20°	2913.2	2914.5	2902.1	2884.8	2844.0	2794.3	2733.4	2636.6	2555.8	2454.1	2346.3
22.5°	2938.6	2938.9	2933.6	2917.4	2886.6	2846.2	2784.9	2704.1	2606.1	2495.6	2387.8
25°	2855.1	2852.3	2858.6	2876.5	2864.8	2852.3	2817.1	2756.9	2665.7	2548.8	2432.7
27.5°	2544.8	2563.9	2599.0	2643.3	2685.9	2718.4	2727.5	2715.2	2658.6	2562.5	2440.9
30°	2321.4	2344.9	2371.2	2415.4	2501.1	2550.2	2604.2	2644.9	2622.1	2545.4	2432.0
32.5°	2075.9	2081.7	2120.7	2171.0	2249.5	2343.9	2429.4	2512.2	2539.7	2499.5	2404.9
35°	1688.2	1697.8	1740.0	1789.8	1885.9	2001.3	2129.9	2244.7	2339.4	2377.4	2329.0
37.5°	1377.6	1405.4	1435.2	1488.7	1573.3	1677.2	1810.8	1959.3	2100.5	2195.0	2211.1
40°	1230.5	1247.8	1269.2	1310.0	1381.9	1484.2	1599.0	1769.1	1919.1	2054.6	2098.8
42.5°	1114.4	1124.5	1137.6	1174.5	1229.3	1331.0	1435.8	1585.4	1736.0	1898.0	1972.2
45°	947.1	957.5	979.6	1001.0	1042.5	1113.0	1210.5	1333.5	1484.9	1641.2	1778.0
47.5°	826.2	832.9	846.0	869.0	904.2	950.7	1030.0	1132.8	1273.1	1424.8	1570.6
50°	757.7	763.2	773.6	794.3	821.3	862.7	927.7	1023.8	1133.7	1286.5	1429.6
52.5°	703.5	705.7	713.3	727.4	748.8	783.7	837.0	916.5	1018.7	1154.9	1297.4
55°	619.4	622.2	629.1	639.5	658.1	680.2	721.0	780.5	869.7	987.9	1111.6
57.5°	550.3	552.2	558.0	562.0	577.4	595.4	626.7	669.2	736.8	837.0	947.5
60°	506.0	504.7	511.6	515.0	525.4	540.6	564.8	605.6	664.3	745.2	846.8
62.5°	462.9	461.0	466.8	471.3	477.3	490.3	510.0	542.0	589.7	662.8	750.6
65°	398.2	395.4	398.9	404.4	409.9	416.9	431.4	459.7	497.7	550.3	617.3
67.5°	333.2	336.1	336.7	339.4	342.6	352.0	362.0	382.0	408.8	450.9	507.7
70°	294.5	295.2	298.0	298.0	300.0	308.3	316.6	328.4	354.6	393.4	439.7
72.5°	255.8	258.7	257.6	259.8	261.3	266.8	272.9	284.1	306.5	335.3	374.4
75°	199.1	201.2	201.2	201.9	203.9	206.0	210.8	219.1	235.0	256.5	283.4
77.5°	145.2	145.5	146.4	148.9	148.9	152.2	155.8	162.5	170.3	185.0	201.4
80°	112.0	113.4	112.7	114.1	114.1	116.8	118.2	126.5	130.0	139.6	152.8
82.5°	82.1	83.5	83.4	85.3	86.4	87.0	88.9	92.2	95.7	104.2	109.6
85°	41.5	42.9	41.5	42.9	44.9	45.6	47.7	48.4	51.2	53.2	58.1
87.5°	18.2	19.7	19.6	20.1	21.1	21.5	21.8	21.0	22.9	23.2	25.1
90°	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6	23.3	22.0	20.2
92.5°	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8	22.5	21.2	19.4
95°	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6	23.3	22.0	21.7
97.5°	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6	26.5	26.4	51.1
100°	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4	40.2	43.9	74.5
102.5°	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3	170.9	211.6	215.6
105°	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5	313.5	311.5	310.4
107.5°	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3	389.3	388.3	386.8
110°	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1	440.7	440.2	438.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4	490.5	490.5	489.9
115°	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9	563.5	563.0	563.2
117.5°	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9	638.0	638.1	637.6
120°	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7	683.3	682.8	683.0
122.5°	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9	728.6	728.3	728.0
125°	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0	791.3	790.6	791.1
127.5°	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7	854.8	854.9	853.9
130°	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9	892.7	892.5	891.8
132.5°	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4	930.2	930.0	929.1
135°	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2	981.7	981.3	980.4
137.5°	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8	1031.3	1030.8	1029.8
140°	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5	1061.8	1061.2	1060.7
142.5°	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9	1090.4	1089.9	1089.6
145°	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5	1131.3	1131.0	1131.0
147.5°	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1	1167.0	1166.8	1167.0
150°	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9	1189.9	1189.9	1190.2
152.5°	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8	1209.5	1209.1	1209.5
155°	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6	1235.7	1234.9	1235.5
157.5°	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4	1258.2
160°	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8	1272.0
162.5°	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4	1285.1	1283.8	1284.0
165°	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3	1301.5	1299.7	1299.7
167.5°	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6	1313.7	1311.7	1311.9
170°	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3	1321.5	1319.7	1319.5
172.5°	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1	1326.3	1324.5	1324.3
175°	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7	1331.7	1329.7	1329.5
177.5°	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9	1334.5	1333.1	1332.7
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1722.5	1714.7	1709.2	1704.8	1692.6	1685.4	1679.9	1672.1	1663.3	1653.9	1642.3
5°	1820.2	1796.7	1779.4	1753.2	1728.3	1707.5	1686.1	1666.7	1643.2	1617.7	1599.0
7.5°	1922.9	1888.0	1843.2	1804.3	1760.6	1722.6	1688.6	1653.7	1617.5	1582.4	1550.2
10°	1988.2	1943.3	1893.5	1834.7	1779.4	1730.3	1684.7	1640.5	1597.6	1554.7	1518.1
12.5°	2058.4	2002.4	1928.9	1860.2	1798.2	1732.6	1677.5	1623.3	1571.6	1526.5	1483.8
15°	2152.7	2071.8	1986.8	1894.9	1813.3	1736.6	1661.2	1592.8	1534.7	1475.2	1433.8
17.5°	2210.7	2110.6	2013.4	1917.3	1818.5	1721.8	1640.5	1561.5	1488.8	1429.8	1377.5
20°	2248.8	2149.3	2028.3	1932.2	1814.7	1715.1	1621.1	1533.3	1457.3	1394.4	1340.4
22.5°	2282.0	2167.0	2046.0	1919.5	1802.5	1696.9	1594.0	1505.7	1428.0	1361.7	1310.0
25°	2300.0	2167.9	2036.6	1910.8	1778.0	1652.9	1559.6	1455.9	1372.9	1303.1	1247.8
27.5°	2301.9	2160.7	2012.1	1872.3	1735.3	1618.8	1501.0	1408.3	1322.2	1248.4	1195.3
30°	2295.8	2148.6	1988.9	1837.5	1699.9	1573.4	1471.1	1370.2	1282.4	1209.1	1153.8
32.5°	2276.5	2123.1	1959.0	1798.8	1656.2	1532.5	1426.9	1330.9	1245.3	1173.1	1115.1
35°	2220.5	2069.1	1894.2	1727.6	1581.7	1456.6	1361.2	1263.7	1178.0	1109.5	1053.6
37.5°	2133.0	1996.1	1818.3	1645.9	1502.6	1376.9	1282.4	1194.3	1117.0	1047.5	990.1
40°	2056.6	1936.3	1758.0	1590.0	1435.2	1315.6	1227.1	1146.2	1069.5	1003.8	949.2
42.5°	1968.7	1863.9	1699.4	1521.4	1372.1	1252.0	1165.7	1093.1	1020.8	960.1	905.5
45°	1811.9	1742.8	1587.9	1423.4	1267.9	1154.5	1072.2	1008.6	947.8	888.3	842.7
47.5°	1631.6	1597.3	1467.0	1310.7	1163.1	1051.3	980.0	921.2	867.9	817.5	777.3
50°	1510.5	1493.9	1381.2	1230.5	1089.5	984.4	912.5	862.1	816.4	772.2	734.2
52.5°	1391.0	1390.5	1288.9	1150.9	1020.4	919.2	847.8	800.7	761.1	725.2	691.0
55°	1208.4	1227.8	1148.3	1025.2	908.4	817.1	752.8	710.7	683.0	653.3	627.7
57.5°	1040.7	1072.8	1007.2	898.8	801.4	717.3	661.3	629.6	600.2	582.2	563.6
60°	931.2	961.6	910.5	819.2	727.3	655.4	602.1	573.8	548.2	535.8	522.6
62.5°	833.9	861.0	823.1	738.5	658.7	589.5	544.6	517.4	500.1	486.5	477.8
65°	694.8	717.6	685.1	623.6	555.1	499.8	463.2	441.7	425.2	419.6	409.9
67.5°	561.6	582.4	564.8	512.5	457.6	415.8	387.1	366.5	356.7	351.9	345.0
70°	482.5	503.3	484.6	439.0	396.8	361.6	334.6	322.8	312.5	310.4	300.7
72.5°	415.6	429.7	411.1	375.4	339.3	309.6	288.7	276.4	271.0	267.3	262.0
75°	311.8	324.2	311.8	284.1	258.5	237.8	219.8	215.0	208.8	206.7	203.2
77.5°	220.7	231.4	221.9	204.6	185.5	169.5	159.8	153.6	152.2	148.6	150.3
80°	168.7	175.6	166.6	154.9	139.6	128.6	121.7	118.2	114.1	112.7	115.4
82.5°	121.1	124.2	119.6	111.7	100.4	93.2	88.5	84.5	83.6	83.9	83.9
85°	62.9	62.2	61.5	54.6	51.2	46.3	43.6	42.9	42.2	43.6	44.9
87.5°	24.7	24.9	24.0	21.4	19.2	17.1	16.0	15.0	16.0	17.1	18.1
90°	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6	12.7	12.8	13.0
95°	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9	47.4	39.8	32.3
97.5°	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6	121.3	126.0	130.7
100°	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7	167.7	171.7	175.7
102.5°	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4	219.4	222.3	225.2
105°	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5	301.8	303.1	304.5
107.5°	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5	379.2	379.9	380.5
110°	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3	431.9	432.6	433.2



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4	483.6	484.8	486.0
115°	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0	561.7	562.4	563.0
117.5°	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9	632.8	633.7	634.6
120°	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8	680.7	681.6	682.5
122.5°	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5	725.1	725.6	726.1
125°	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6	789.5	790.4	791.3
127.5°	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3	849.5	849.8	850.0
130°	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5	888.7	888.9	889.1
132.5°	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4	924.8	925.2	925.6
135°	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3	978.1	977.9	977.6
137.5°	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0	1026.1	1026.2	1026.3
140°	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2	1057.6	1058.1	1058.5
142.5°	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1	1085.9	1086.7	1087.5
145°	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0	1128.7	1129.4	1130.0
147.5°	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2	1163.4	1164.7	1165.9
150°	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9	1187.8	1188.7	1189.6
152.5°	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7	1208.4	1209.1	1209.8
155°	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9	1237.1	1237.3	1237.5
157.5°	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4	1261.3	1261.1	1261.0
160°	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8	1275.1	1274.5	1273.8
162.5°	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6	1287.7	1286.9	1286.0
165°	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7	1303.6	1302.5	1301.4
167.5°	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5	1316.4	1315.2	1314.1
170°	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7	1323.4	1322.0	1320.7
172.5°	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5	1328.2	1326.8	1325.5
175°	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7	1333.4	1332.0	1330.7
177.5°	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1	1335.8	1334.6	1333.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1636.7	1631.8	1624.6	1614.6	1606.3	1597.5	1595.3	1591.9	1598.6	1593.0	1591.4
5°	1583.1	1568.6	1549.9	1528.5	1516.0	1498.1	1494.6	1487.7	1480.8	1480.1	1473.2
7.5°	1526.3	1505.0	1480.5	1458.7	1438.5	1418.8	1406.0	1403.2	1393.0	1387.0	1380.1
10°	1489.8	1463.5	1435.2	1414.4	1390.9	1370.2	1355.7	1347.4	1340.4	1332.8	1325.9
12.5°	1446.6	1418.7	1395.3	1372.9	1345.0	1329.2	1305.3	1290.9	1289.6	1289.7	1271.7
15°	1396.4	1368.8	1332.8	1301.0	1285.8	1255.4	1242.3	1225.7	1215.3	1204.9	1196.7
17.5°	1339.1	1304.6	1276.6	1240.1	1211.0	1186.8	1169.6	1159.6	1144.0	1129.3	1118.7
20°	1303.1	1266.5	1236.7	1198.0	1166.2	1136.5	1122.0	1108.2	1096.4	1084.0	1072.2
22.5°	1266.6	1228.3	1191.9	1154.3	1124.8	1093.4	1079.4	1060.6	1049.4	1042.5	1030.7
25°	1209.1	1167.6	1126.1	1090.2	1059.8	1032.1	1013.5	998.9	986.5	981.0	973.4
27.5°	1146.6	1105.4	1065.3	1024.5	990.0	969.9	955.0	944.0	936.9	929.5	926.1
30°	1106.8	1063.9	1021.1	983.0	951.2	931.2	917.4	909.8	904.2	900.8	897.3
32.5°	1066.4	1024.1	979.0	944.3	915.8	898.0	887.5	879.9	877.1	875.9	874.6
35°	1001.7	958.8	917.4	886.3	859.3	852.4	843.4	839.2	837.9	842.7	844.8
37.5°	939.1	899.3	861.1	830.9	813.3	803.2	800.1	800.3	805.2	809.5	814.5
40°	898.7	860.0	824.0	797.8	781.2	775.0	773.6	777.0	782.6	787.4	792.9
42.5°	859.4	821.3	788.6	764.0	752.4	746.7	747.6	751.0	758.8	764.7	773.0
45°	798.5	766.7	734.9	714.8	705.1	706.5	706.5	712.7	720.3	729.3	738.3
47.5°	741.1	709.0	682.9	666.0	661.0	659.8	663.7	671.8	682.7	693.8	706.4
50°	702.4	671.9	649.1	633.9	628.4	630.5	636.0	643.6	656.7	670.6	683.7
52.5°	663.1	635.4	614.3	600.2	596.3	600.1	605.6	617.6	629.1	644.0	659.9
55°	602.1	578.6	562.0	551.7	550.3	552.4	558.6	571.7	588.3	607.0	622.2
57.5°	541.4	521.8	506.6	499.4	500.1	502.0	512.3	527.9	545.6	565.5	585.1
60°	500.5	482.5	470.1	464.6	465.2	469.4	481.8	496.4	518.5	537.8	558.6
62.5°	461.8	446.0	434.1	429.2	428.2	437.3	449.2	464.3	486.4	508.0	530.4
65°	399.6	387.1	377.5	374.7	376.8	383.7	398.9	418.9	437.6	460.4	483.9
67.5°	338.7	328.5	321.9	323.1	325.6	335.8	348.6	365.8	387.0	410.6	433.9
70°	300.0	290.3	284.8	285.5	289.7	302.1	313.2	330.4	353.3	377.5	396.8
72.5°	260.2	253.8	248.9	251.8	255.9	264.5	278.3	295.6	315.7	338.2	358.6
75°	199.8	199.8	197.0	199.1	205.3	213.6	224.0	242.0	262.0	280.0	296.6
77.5°	148.2	146.7	148.5	151.0	154.6	164.4	176.3	189.1	204.2	222.2	235.9
80°	113.4	114.1	117.5	121.7	123.1	130.7	143.1	154.9	166.6	181.8	194.9
82.5°	85.2	85.9	87.7	92.9	94.3	102.5	110.5	122.2	132.9	143.1	154.0
85°	46.3	46.3	49.8	51.8	55.3	60.8	65.7	72.6	82.3	89.2	99.5
87.5°	20.2	20.7	23.2	24.7	26.7	29.8	31.2	37.6	40.0	43.1	48.2
90°	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6	26.0	27.3	28.2
92.5°	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8	25.2	26.5	27.2
95°	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6	26.0	27.3	28.1
97.5°	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6	26.8	26.9	27.1
100°	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4	32.6	28.8	27.1
102.5°	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3	89.6	48.9	28.6
105°	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5	317.4	319.4	316.5
107.5°	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3	391.3	392.2	393.1
110°	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1	441.6	442.0	442.6



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4	490.3	490.2	490.6
115°	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9	564.4	564.8	565.0
117.5°	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9	637.8	637.7	637.7
120°	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7	684.1	684.6	684.6
122.5°	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9	729.1	729.4	729.3
125°	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0	792.6	793.3	793.7
127.5°	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7	854.5	854.4	854.2
130°	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9	893.1	893.3	893.5
132.5°	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4	930.7	930.9	930.9
135°	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2	982.6	983.1	983.5
137.5°	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8	1032.3	1032.8	1032.9
140°	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5	1063.2	1063.8	1064.3
142.5°	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9	1091.4	1091.9	1092.1
145°	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5	1131.7	1131.9	1132.3
147.5°	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1	1167.3	1167.5	1167.7
150°	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9	1189.9	1189.9	1190.0
152.5°	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8	1210.2	1210.5	1210.6
155°	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6	1237.5	1238.4	1238.5
157.5°	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0
160°	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1
162.5°	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4	1287.8	1289.1	1289.0
165°	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3	1305.1	1306.8	1306.7
167.5°	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6	1317.6	1319.5	1319.4
170°	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3	1325.0	1326.8	1326.6
172.5°	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1	1329.8	1331.6	1331.3
175°	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7	1335.7	1337.7	1337.3
177.5°	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9	1337.3	1338.8	1338.4
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1590.3	1589.2	1585.3	1584.8	1585.3	1589.2	1590.3	1591.4	1593.0	1598.6	1591.9
5°	1469.0	1465.6	1463.5	1471.1	1463.5	1465.6	1469.0	1473.2	1480.1	1480.8	1487.7
7.5°	1377.6	1374.9	1368.8	1366.9	1368.8	1374.9	1377.6	1380.1	1387.0	1393.0	1403.2
10°	1319.0	1316.2	1310.7	1309.3	1310.7	1316.2	1319.0	1325.9	1332.8	1340.4	1347.4
12.5°	1262.6	1257.1	1256.0	1257.3	1256.0	1257.1	1262.6	1271.7	1289.7	1289.6	1290.9
15°	1187.7	1184.9	1177.3	1179.4	1177.3	1184.9	1187.7	1196.7	1204.9	1215.3	1225.7
17.5°	1113.8	1110.5	1101.3	1109.4	1101.3	1110.5	1113.8	1118.7	1129.3	1144.0	1159.6
20°	1067.4	1061.8	1057.0	1056.3	1057.0	1061.8	1067.4	1072.2	1084.0	1096.4	1108.2
22.5°	1023.1	1018.2	1017.7	1013.2	1017.7	1018.2	1023.1	1030.7	1042.5	1049.4	1060.6
25°	967.8	963.0	961.6	958.2	961.6	963.0	967.8	973.4	981.0	986.5	998.9
27.5°	925.4	923.0	920.5	921.6	920.5	923.0	925.4	926.1	929.5	936.9	944.0
30°	899.4	898.7	897.3	897.3	897.3	898.7	899.4	897.3	900.8	904.2	909.8
32.5°	877.8	877.7	878.5	878.5	878.5	877.7	877.8	874.6	875.9	877.1	879.9
35°	847.5	849.6	851.0	848.9	851.0	849.6	847.5	844.8	842.7	837.9	839.2
37.5°	820.2	822.2	824.2	826.5	824.2	822.2	820.2	814.5	809.5	805.2	800.3
40°	799.1	804.0	805.4	808.8	805.4	804.0	799.1	792.9	787.4	782.6	777.0
42.5°	779.2	784.6	788.2	788.9	788.2	784.6	779.2	773.0	764.7	758.8	751.0
45°	748.7	754.2	759.1	759.1	759.1	754.2	748.7	738.3	729.3	720.3	712.7
47.5°	717.0	725.0	729.9	731.1	729.9	725.0	717.0	706.4	693.8	682.7	671.8
50°	695.5	705.1	710.0	713.4	710.0	705.1	695.5	683.7	670.6	656.7	643.6
52.5°	674.4	684.1	690.6	692.4	690.6	684.1	674.4	659.9	644.0	629.1	617.6
55°	638.1	651.9	659.5	662.3	659.5	651.9	638.1	622.2	607.0	588.3	571.7
57.5°	603.8	616.5	625.4	627.4	625.4	616.5	603.8	585.1	565.5	545.6	527.9
60°	577.2	591.1	602.1	604.2	602.1	591.1	577.2	558.6	537.8	518.5	496.4
62.5°	550.1	564.5	574.5	579.9	574.5	564.5	550.1	530.4	508.0	486.4	464.3
65°	503.3	517.8	527.5	529.5	527.5	517.8	503.3	483.9	460.4	437.6	418.9
67.5°	452.1	466.6	473.0	477.0	473.0	466.6	452.1	433.9	410.6	387.0	365.8
70°	416.2	427.9	434.8	438.3	434.8	427.9	416.2	396.8	377.5	353.3	330.4
72.5°	375.2	387.5	395.6	396.3	395.6	387.5	375.2	358.6	338.2	315.7	295.6
75°	312.5	323.5	327.7	327.7	327.7	323.5	312.5	296.6	280.0	262.0	242.0
77.5°	247.3	253.0	258.3	259.4	258.3	253.0	247.3	235.9	222.2	204.2	189.1
80°	205.3	208.8	212.9	212.9	212.9	208.8	205.3	194.9	181.8	166.6	154.9
82.5°	162.2	165.1	169.2	168.7	169.2	165.1	162.2	154.0	143.1	132.9	122.2
85°	98.2	104.4	103.7	102.3	103.7	104.4	98.2	99.5	89.2	82.3	72.6
87.5°	50.0	50.6	52.4	53.6	52.4	50.6	50.0	48.2	43.1	40.0	37.6
90°	28.6	29.1	29.5	29.9	29.5	29.1	28.6	28.2	27.3	26.0	24.6
92.5°	27.3	27.4	27.5	27.6	27.5	27.4	27.3	27.2	26.5	25.2	23.8
95°	28.3	28.5	28.7	28.9	28.7	28.5	28.3	28.1	27.3	26.0	24.6
97.5°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	26.9	26.8	26.6
100°	27.3	27.5	27.7	28.0	27.7	27.5	27.3	27.1	28.8	32.6	36.4
102.5°	28.6	28.7	28.7	28.8	28.7	28.7	28.6	28.6	48.9	89.6	130.3
105°	308.5	300.5	292.5	284.5	292.5	300.5	308.5	316.5	319.4	317.4	315.5
107.5°	394.0	394.8	395.7	396.5	395.7	394.8	394.0	393.1	392.2	391.3	390.3
110°	443.2	443.9	444.6	445.2	444.6	443.9	443.2	442.6	442.0	441.6	441.1



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	491.4	492.3	493.1	493.9	493.1	492.3	491.4	490.6	490.2	490.3	490.4
115°	565.0	565.0	565.0	565.0	565.0	565.0	565.0	565.0	564.8	564.4	563.9
117.5°	637.6	637.5	637.4	637.3	637.4	637.5	637.6	637.7	637.7	637.8	637.9
120°	684.1	683.7	683.3	682.8	683.3	683.7	684.1	684.6	684.6	684.1	683.7
122.5°	728.9	728.4	728.0	727.5	728.0	728.4	728.9	729.3	729.4	729.1	728.9
125°	794.0	794.2	794.4	794.6	794.4	794.2	794.0	793.7	793.3	792.6	792.0
127.5°	854.1	853.9	853.7	853.5	853.7	853.9	854.1	854.2	854.4	854.5	854.7
130°	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.5	893.3	893.1	892.9
132.5°	930.7	930.5	930.4	930.2	930.4	930.5	930.7	930.9	930.9	930.7	930.4
135°	984.0	984.4	984.8	985.3	984.8	984.4	984.0	983.5	983.1	982.6	982.2
137.5°	1032.8	1032.7	1032.5	1032.4	1032.5	1032.7	1032.8	1032.9	1032.8	1032.3	1031.8
140°	1064.5	1064.7	1064.9	1065.2	1064.9	1064.7	1064.5	1064.3	1063.8	1063.2	1062.5
142.5°	1092.2	1092.2	1092.3	1092.3	1092.3	1092.2	1092.2	1092.1	1091.9	1091.4	1090.9
145°	1132.7	1133.1	1133.6	1134.0	1133.6	1133.1	1132.7	1132.3	1131.9	1131.7	1131.5
147.5°	1167.9	1168.1	1168.4	1168.6	1168.4	1168.1	1167.9	1167.7	1167.5	1167.3	1167.1
150°	1190.3	1190.5	1190.7	1190.9	1190.7	1190.5	1190.3	1190.0	1189.9	1189.9	1189.9
152.5°	1210.5	1210.4	1210.2	1210.1	1210.2	1210.4	1210.5	1210.6	1210.5	1210.2	1209.8
155°	1237.9	1237.2	1236.5	1235.9	1236.5	1237.2	1237.9	1238.5	1238.4	1237.5	1236.6
157.5°	1260.9	1259.7	1258.6	1257.4	1258.6	1259.7	1260.9	1262.0	1262.0	1260.9	1259.7
160°	1275.8	1274.5	1273.1	1271.8	1273.1	1274.5	1275.8	1277.1	1277.1	1275.8	1274.5
162.5°	1287.5	1286.0	1284.5	1283.0	1284.5	1286.0	1287.5	1289.0	1289.1	1287.8	1286.4
165°	1304.7	1302.7	1300.7	1298.7	1300.7	1302.7	1304.7	1306.7	1306.8	1305.1	1303.3
167.5°	1317.2	1315.0	1312.7	1310.5	1312.7	1315.0	1317.2	1319.4	1319.5	1317.6	1315.6
170°	1324.4	1322.2	1319.9	1317.7	1319.9	1322.2	1324.4	1326.6	1326.8	1325.0	1323.3
172.5°	1328.9	1326.5	1324.1	1321.7	1324.1	1326.5	1328.9	1331.3	1331.6	1329.8	1328.1
175°	1334.7	1332.0	1329.4	1326.7	1329.4	1332.0	1334.7	1337.3	1337.7	1335.7	1333.7
177.5°	1336.3	1334.2	1332.0	1329.9	1332.0	1334.2	1336.3	1338.4	1338.8	1337.3	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1595.3	1597.5	1606.3	1614.6	1624.6	1631.8	1636.7	1642.3	1653.9	1663.3	1672.1
5°	1494.6	1498.1	1516.0	1528.5	1549.9	1568.6	1583.1	1599.0	1617.7	1643.2	1666.7
7.5°	1406.0	1418.8	1438.5	1458.7	1480.5	1505.0	1526.3	1550.2	1582.4	1617.5	1653.7
10°	1355.7	1370.2	1390.9	1414.4	1435.2	1463.5	1489.8	1518.1	1554.7	1597.6	1640.5
12.5°	1305.3	1329.2	1345.0	1372.9	1395.3	1418.7	1446.6	1483.8	1526.5	1571.6	1623.3
15°	1242.3	1255.4	1285.8	1301.0	1332.8	1368.8	1396.4	1433.8	1475.2	1534.7	1592.8
17.5°	1169.6	1186.8	1211.0	1240.1	1276.6	1304.6	1339.1	1377.5	1429.8	1488.8	1561.5
20°	1122.0	1136.5	1166.2	1198.0	1236.7	1266.5	1303.1	1340.4	1394.4	1457.3	1533.3
22.5°	1079.4	1093.4	1124.8	1154.3	1191.9	1228.3	1266.6	1310.0	1361.7	1428.0	1505.7
25°	1013.5	1032.1	1059.8	1090.2	1126.1	1167.6	1209.1	1247.8	1303.1	1372.9	1455.9
27.5°	955.0	969.9	990.0	1024.5	1065.3	1105.4	1146.6	1195.3	1248.4	1322.2	1408.3
30°	917.4	931.2	951.2	983.0	1021.1	1063.9	1106.8	1153.8	1209.1	1282.4	1370.2
32.5°	887.5	898.0	915.8	944.3	979.0	1024.1	1066.4	1115.1	1173.1	1245.3	1330.9
35°	843.4	852.4	859.3	886.3	917.4	958.8	1001.7	1053.6	1109.5	1178.0	1263.7
37.5°	800.1	803.2	813.3	830.9	861.1	899.3	939.1	990.1	1047.5	1117.0	1194.3
40°	773.6	775.0	781.2	797.8	824.0	860.0	898.7	949.2	1003.8	1069.5	1146.2
42.5°	747.6	746.7	752.4	764.0	788.6	821.3	859.4	905.5	960.1	1020.8	1093.1
45°	706.5	706.5	705.1	714.8	734.9	766.7	798.5	842.7	888.3	947.8	1008.6
47.5°	663.7	659.8	661.0	666.0	682.9	709.0	741.1	777.3	817.5	867.9	921.2
50°	636.0	630.5	628.4	633.9	649.1	671.9	702.4	734.2	772.2	816.4	862.1
52.5°	605.6	600.1	596.3	600.2	614.3	635.4	663.1	691.0	725.2	761.1	800.7
55°	558.6	552.4	550.3	551.7	562.0	578.6	602.1	627.7	653.3	683.0	710.7
57.5°	512.3	502.0	500.1	499.4	506.6	521.8	541.4	563.6	582.2	600.2	629.6
60°	481.8	469.4	465.2	464.6	470.1	482.5	500.5	522.6	535.8	548.2	573.8
62.5°	449.2	437.3	428.2	429.2	434.1	446.0	461.8	477.8	486.5	500.1	517.4
65°	398.9	383.7	376.8	374.7	377.5	387.1	399.6	409.9	419.6	425.2	441.7
67.5°	348.6	335.8	325.6	323.1	321.9	328.5	338.7	345.0	351.9	356.7	366.5
70°	313.2	302.1	289.7	285.5	284.8	290.3	300.0	300.7	310.4	312.5	322.8
72.5°	278.3	264.5	255.9	251.8	248.9	253.8	260.2	262.0	267.3	271.0	276.4
75°	224.0	213.6	205.3	199.1	197.0	199.8	199.8	203.2	206.7	208.8	215.0
77.5°	176.3	164.4	154.6	151.0	148.5	146.7	148.2	150.3	148.6	152.2	153.6
80°	143.1	130.7	123.1	121.7	117.5	114.1	113.4	115.4	112.7	114.1	118.2
82.5°	110.5	102.5	94.3	92.9	87.7	85.9	85.2	83.9	83.9	83.6	84.5
85°	65.7	60.8	55.3	51.8	49.8	46.3	46.3	44.9	43.6	42.2	42.9
87.5°	31.2	29.8	26.7	24.7	23.2	20.7	20.2	18.1	17.1	16.0	15.0
90°	23.3	22.0	20.2	18.4	16.6	14.9	12.8	10.3	7.9	5.4	3.0
92.5°	22.5	21.2	19.4	17.6	15.8	14.1	13.1	13.0	12.8	12.7	12.6
95°	23.3	22.0	21.7	21.5	21.3	21.1	24.7	32.3	39.8	47.4	54.9
97.5°	26.5	26.4	51.1	75.9	100.6	125.4	135.4	130.7	126.0	121.3	116.6
100°	40.2	43.9	74.5	105.2	135.8	166.4	179.7	175.7	171.7	167.7	163.7
102.5°	170.9	211.6	215.6	219.6	223.6	227.6	228.1	225.2	222.3	219.4	216.4
105°	313.5	311.5	310.4	309.2	308.1	307.0	305.8	304.5	303.1	301.8	300.5
107.5°	389.3	388.3	386.8	385.3	383.8	382.3	381.2	380.5	379.9	379.2	378.5
110°	440.7	440.2	438.9	437.6	436.2	434.9	433.9	433.2	432.6	431.9	431.3



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	490.5	490.5	489.9	489.3	488.7	488.1	487.2	486.0	484.8	483.6	482.4
115°	563.5	563.0	563.2	563.5	563.7	563.9	563.7	563.0	562.4	561.7	561.0
117.5°	638.0	638.1	637.6	637.1	636.6	636.1	635.5	634.6	633.7	632.8	631.9
120°	683.3	682.8	683.0	683.3	683.5	683.7	683.4	682.5	681.6	680.7	679.8
122.5°	728.6	728.3	728.0	727.7	727.4	727.1	726.7	726.1	725.6	725.1	724.5
125°	791.3	790.6	791.1	791.5	792.0	792.4	792.2	791.3	790.4	789.5	788.6
127.5°	854.8	854.9	853.9	852.9	851.9	850.8	850.2	850.0	849.8	849.5	849.3
130°	892.7	892.5	891.8	891.1	890.5	889.8	889.3	889.1	888.9	888.7	888.5
132.5°	930.2	930.0	929.1	928.3	927.5	926.6	926.0	925.6	925.2	924.8	924.4
135°	981.7	981.3	980.4	979.5	978.6	977.7	977.4	977.6	977.9	978.1	978.3
137.5°	1031.3	1030.8	1029.8	1028.9	1027.9	1026.9	1026.4	1026.3	1026.2	1026.1	1026.0
140°	1061.8	1061.2	1060.7	1060.3	1059.8	1059.4	1058.9	1058.5	1058.1	1057.6	1057.2
142.5°	1090.4	1089.9	1089.6	1089.4	1089.1	1088.8	1088.3	1087.5	1086.7	1085.9	1085.1
145°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1130.7	1130.0	1129.4	1128.7	1128.0
147.5°	1167.0	1166.8	1167.0	1167.2	1167.4	1167.7	1167.2	1165.9	1164.7	1163.4	1162.2
150°	1189.9	1189.9	1190.2	1190.4	1190.6	1190.8	1190.5	1189.6	1188.7	1187.8	1186.9
152.5°	1209.5	1209.1	1209.5	1209.9	1210.3	1210.7	1210.5	1209.8	1209.1	1208.4	1207.7
155°	1235.7	1234.9	1235.5	1236.2	1236.9	1237.5	1237.7	1237.5	1237.3	1237.1	1236.9
157.5°	1258.6	1257.4	1258.2	1258.9	1259.7	1260.4	1260.9	1261.0	1261.1	1261.3	1261.4
160°	1273.1	1271.8	1272.0	1272.2	1272.5	1272.7	1273.1	1273.8	1274.5	1275.1	1275.8
162.5°	1285.1	1283.8	1284.0	1284.2	1284.4	1284.7	1285.2	1286.0	1286.9	1287.7	1288.6
165°	1301.5	1299.7	1299.7	1299.7	1299.7	1299.7	1300.3	1301.4	1302.5	1303.6	1304.7
167.5°	1313.7	1311.7	1311.9	1312.0	1312.1	1312.3	1312.9	1314.1	1315.2	1316.4	1317.5
170°	1321.5	1319.7	1319.5	1319.3	1319.0	1318.8	1319.4	1320.7	1322.0	1323.4	1324.7
172.5°	1326.3	1324.5	1324.3	1324.1	1323.8	1323.6	1324.2	1325.5	1326.8	1328.2	1329.5
175°	1331.7	1329.7	1329.5	1329.3	1329.0	1328.8	1329.4	1330.7	1332.0	1333.4	1334.7
177.5°	1334.5	1333.1	1332.7	1332.4	1332.0	1331.7	1332.1	1333.4	1334.6	1335.8	1337.1
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



TEST NUMBER: P332652

CATALOG NUMBER: S124DIP-S1020D1035U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1679.9	1685.4	1692.6	1704.8	1709.2	1714.7	1722.5	1721.9	1724.1	1732.4	1750.1
5°	1686.1	1707.5	1728.3	1753.2	1779.4	1796.7	1820.2	1834.7	1849.2	1867.9	1899.7
7.5°	1688.6	1722.6	1760.6	1804.3	1843.2	1888.0	1922.9	1955.8	1985.6	2025.0	2062.9
10°	1684.7	1730.3	1779.4	1834.7	1893.5	1943.3	1988.2	2039.4	2082.9	2130.6	2173.5
12.5°	1677.5	1732.6	1798.2	1860.2	1928.9	2002.4	2058.4	2110.1	2168.1	2223.0	2289.1
15°	1661.2	1736.6	1813.3	1894.9	1986.8	2071.8	2152.7	2219.8	2282.0	2364.3	2450.7
17.5°	1640.5	1721.8	1818.5	1917.3	2013.4	2110.6	2210.7	2311.5	2390.0	2492.2	2559.8
20°	1621.1	1715.1	1814.7	1932.2	2028.3	2149.3	2248.8	2346.3	2454.1	2555.8	2636.6
22.5°	1594.0	1696.9	1802.5	1919.5	2046.0	2167.0	2282.0	2387.8	2495.6	2606.1	2704.1
25°	1559.6	1652.9	1778.0	1910.8	2036.6	2167.9	2300.0	2432.7	2548.8	2665.7	2756.9
27.5°	1501.0	1618.8	1735.3	1872.3	2012.1	2160.7	2301.9	2440.9	2562.5	2658.6	2715.2
30°	1471.1	1573.4	1699.9	1837.5	1988.9	2148.6	2295.8	2432.0	2545.4	2622.1	2644.9
32.5°	1426.9	1532.5	1656.2	1798.8	1959.0	2123.1	2276.5	2404.9	2499.5	2539.7	2512.2
35°	1361.2	1456.6	1581.7	1727.6	1894.2	2069.1	2220.5	2329.0	2377.4	2339.4	2244.7
37.5°	1282.4	1376.9	1502.6	1645.9	1818.3	1996.1	2133.0	2211.1	2195.0	2100.5	1959.3
40°	1227.1	1315.6	1435.2	1590.0	1758.0	1936.3	2056.6	2098.8	2054.6	1919.1	1769.1
42.5°	1165.7	1252.0	1372.1	1521.4	1699.4	1863.9	1968.7	1972.2	1898.0	1736.0	1585.4
45°	1072.2	1154.5	1267.9	1423.4	1587.9	1742.8	1811.9	1778.0	1641.2	1484.9	1333.5
47.5°	980.0	1051.3	1163.1	1310.7	1467.0	1597.3	1631.6	1570.6	1424.8	1273.1	1132.8
50°	912.5	984.4	1089.5	1230.5	1381.2	1493.9	1510.5	1429.6	1286.5	1133.7	1023.8
52.5°	847.8	919.2	1020.4	1150.9	1288.9	1390.5	1391.0	1297.4	1154.9	1018.7	916.5
55°	752.8	817.1	908.4	1025.2	1148.3	1227.8	1208.4	1111.6	987.9	869.7	780.5
57.5°	661.3	717.3	801.4	898.8	1007.2	1072.8	1040.7	947.5	837.0	736.8	669.2
60°	602.1	655.4	727.3	819.2	910.5	961.6	931.2	846.8	745.2	664.3	605.6
62.5°	544.6	589.5	658.7	738.5	823.1	861.0	833.9	750.6	662.8	589.7	542.0
65°	463.2	499.8	555.1	623.6	685.1	717.6	694.8	617.3	550.3	497.7	459.7
67.5°	387.1	415.8	457.6	512.5	564.8	582.4	561.6	507.7	450.9	408.8	382.0
70°	334.6	361.6	396.8	439.0	484.6	503.3	482.5	439.7	393.4	354.6	328.4
72.5°	288.7	309.6	339.3	375.4	411.1	429.7	415.6	374.4	335.3	306.5	284.1
75°	219.8	237.8	258.5	284.1	311.8	324.2	311.8	283.4	256.5	235.0	219.1
77.5°	159.8	169.5	185.5	204.6	221.9	231.4	220.7	201.4	185.0	170.3	162.5
80°	121.7	128.6	139.6	154.9	166.6	175.6	168.7	152.8	139.6	130.0	126.5
82.5°	88.5	93.2	100.4	111.7	119.6	124.2	121.1	109.6	104.2	95.7	92.2
85°	43.6	46.3	51.2	54.6	61.5	62.2	62.9	58.1	53.2	51.2	48.4
87.5°	16.0	17.1	19.2	21.4	24.0	24.9	24.7	25.1	23.2	22.9	21.0
90°	5.4	7.9	10.3	12.8	14.9	16.6	18.4	20.2	22.0	23.3	24.6
92.5°	12.7	12.8	13.0	13.1	14.1	15.8	17.6	19.4	21.2	22.5	23.8
95°	47.4	39.8	32.3	24.7	21.1	21.3	21.5	21.7	22.0	23.3	24.6
97.5°	121.3	126.0	130.7	135.4	125.4	100.6	75.9	51.1	26.4	26.5	26.6
100°	167.7	171.7	175.7	179.7	166.4	135.8	105.2	74.5	43.9	40.2	36.4
102.5°	219.4	222.3	225.2	228.1	227.6	223.6	219.6	215.6	211.6	170.9	130.3
105°	301.8	303.1	304.5	305.8	307.0	308.1	309.2	310.4	311.5	313.5	315.5
107.5°	379.2	379.9	380.5	381.2	382.3	383.8	385.3	386.8	388.3	389.3	390.3
110°	431.9	432.6	433.2	433.9	434.9	436.2	437.6	438.9	440.2	440.7	441.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	483.6	484.8	486.0	487.2	488.1	488.7	489.3	489.9	490.5	490.5	490.4
115°	561.7	562.4	563.0	563.7	563.9	563.7	563.5	563.2	563.0	563.5	563.9
117.5°	632.8	633.7	634.6	635.5	636.1	636.6	637.1	637.6	638.1	638.0	637.9
120°	680.7	681.6	682.5	683.4	683.7	683.5	683.3	683.0	682.8	683.3	683.7
122.5°	725.1	725.6	726.1	726.7	727.1	727.4	727.7	728.0	728.3	728.6	728.9
125°	789.5	790.4	791.3	792.2	792.4	792.0	791.5	791.1	790.6	791.3	792.0
127.5°	849.5	849.8	850.0	850.2	850.8	851.9	852.9	853.9	854.9	854.8	854.7
130°	888.7	888.9	889.1	889.3	889.8	890.5	891.1	891.8	892.5	892.7	892.9
132.5°	924.8	925.2	925.6	926.0	926.6	927.5	928.3	929.1	930.0	930.2	930.4
135°	978.1	977.9	977.6	977.4	977.7	978.6	979.5	980.4	981.3	981.7	982.2
137.5°	1026.1	1026.2	1026.3	1026.4	1026.9	1027.9	1028.9	1029.8	1030.8	1031.3	1031.8
140°	1057.6	1058.1	1058.5	1058.9	1059.4	1059.8	1060.3	1060.7	1061.2	1061.8	1062.5
142.5°	1085.9	1086.7	1087.5	1088.3	1088.8	1089.1	1089.4	1089.6	1089.9	1090.4	1090.9
145°	1128.7	1129.4	1130.0	1130.7	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.5
147.5°	1163.4	1164.7	1165.9	1167.2	1167.7	1167.4	1167.2	1167.0	1166.8	1167.0	1167.1
150°	1187.8	1188.7	1189.6	1190.5	1190.8	1190.6	1190.4	1190.2	1189.9	1189.9	1189.9
152.5°	1208.4	1209.1	1209.8	1210.5	1210.7	1210.3	1209.9	1209.5	1209.1	1209.5	1209.8
155°	1237.1	1237.3	1237.5	1237.7	1237.5	1236.9	1236.2	1235.5	1234.9	1235.7	1236.6
157.5°	1261.3	1261.1	1261.0	1260.9	1260.4	1259.7	1258.9	1258.2	1257.4	1258.6	1259.7
160°	1275.1	1274.5	1273.8	1273.1	1272.7	1272.5	1272.2	1272.0	1271.8	1273.1	1274.5
162.5°	1287.7	1286.9	1286.0	1285.2	1284.7	1284.4	1284.2	1284.0	1283.8	1285.1	1286.4
165°	1303.6	1302.5	1301.4	1300.3	1299.7	1299.7	1299.7	1299.7	1299.7	1301.5	1303.3
167.5°	1316.4	1315.2	1314.1	1312.9	1312.3	1312.1	1312.0	1311.9	1311.7	1313.7	1315.6
170°	1323.4	1322.0	1320.7	1319.4	1318.8	1319.0	1319.3	1319.5	1319.7	1321.5	1323.3
172.5°	1328.2	1326.8	1325.5	1324.2	1323.6	1323.8	1324.1	1324.3	1324.5	1326.3	1328.1
175°	1333.4	1332.0	1330.7	1329.4	1328.8	1329.0	1329.3	1329.5	1329.7	1331.7	1333.7
177.5°	1335.8	1334.6	1333.4	1332.1	1331.7	1332.0	1332.4	1332.7	1333.1	1334.5	1335.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1759.0	1760.1	1765.0	1768.9	1770.0	1775.6	1776.1
5°	1913.5	1925.3	1948.1	1950.2	1953.6	1971.6	1957.8
7.5°	2094.7	2124.5	2144.4	2162.0	2168.4	2176.2	2174.6
10°	2210.8	2255.0	2277.2	2312.4	2313.8	2322.8	2317.3
12.5°	2327.5	2378.9	2419.3	2425.8	2455.4	2459.9	2467.7
15°	2492.8	2547.5	2603.5	2623.5	2664.3	2674.0	2689.2
17.5°	2648.3	2704.1	2743.4	2795.2	2812.0	2834.4	2819.1
20°	2733.4	2794.3	2844.0	2884.8	2902.1	2914.5	2913.2
22.5°	2784.9	2846.2	2886.6	2917.4	2933.6	2938.9	2938.6
25°	2817.1	2852.3	2864.8	2876.5	2858.6	2852.3	2855.1
27.5°	2727.5	2718.4	2685.9	2643.3	2599.0	2563.9	2544.8
30°	2604.2	2550.2	2501.1	2415.4	2371.2	2344.9	2321.4
32.5°	2429.4	2343.9	2249.5	2171.0	2120.7	2081.7	2075.9
35°	2129.9	2001.3	1885.9	1789.8	1740.0	1697.8	1688.2
37.5°	1810.8	1677.2	1573.3	1488.7	1435.2	1405.4	1377.6
40°	1599.0	1484.2	1381.9	1310.0	1269.2	1247.8	1230.5
42.5°	1435.8	1331.0	1229.3	1174.5	1137.6	1124.5	1114.4
45°	1210.5	1113.0	1042.5	1001.0	979.6	957.5	947.1
47.5°	1030.0	950.7	904.2	869.0	846.0	832.9	826.2
50°	927.7	862.7	821.3	794.3	773.6	763.2	757.7
52.5°	837.0	783.7	748.8	727.4	713.3	705.7	703.5
55°	721.0	680.2	658.1	639.5	629.1	622.2	619.4
57.5°	626.7	595.4	577.4	562.0	558.0	552.2	550.3
60°	564.8	540.6	525.4	515.0	511.6	504.7	506.0
62.5°	510.0	490.3	477.3	471.3	466.8	461.0	462.9
65°	431.4	416.9	409.9	404.4	398.9	395.4	398.2
67.5°	362.0	352.0	342.6	339.4	336.7	336.1	333.2
70°	316.6	308.3	300.0	298.0	298.0	295.2	294.5
72.5°	272.9	266.8	261.3	259.8	257.6	258.7	255.8
75°	210.8	206.0	203.9	201.9	201.2	201.2	199.1
77.5°	155.8	152.2	148.9	148.9	146.4	145.5	145.2
80°	118.2	116.8	114.1	114.1	112.7	113.4	112.0
82.5°	88.9	87.0	86.4	85.3	83.4	83.5	82.1
85°	47.7	45.6	44.9	42.9	41.5	42.9	41.5
87.5°	21.8	21.5	21.1	20.1	19.6	19.7	18.2
90°	26.0	27.3	28.2	28.6	29.1	29.5	29.9
92.5°	25.2	26.5	27.2	27.3	27.4	27.5	27.6
95°	26.0	27.3	28.1	28.3	28.5	28.7	28.9
97.5°	26.8	26.9	27.1	27.3	27.5	27.7	28.0
100°	32.6	28.8	27.1	27.3	27.5	27.7	28.0
102.5°	89.6	48.9	28.6	28.6	28.7	28.7	28.8
105°	317.4	319.4	316.5	308.5	300.5	292.5	284.5
107.5°	391.3	392.2	393.1	394.0	394.8	395.7	396.5
110°	441.6	442.0	442.6	443.2	443.9	444.6	445.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	490.3	490.2	490.6	491.4	492.3	493.1	493.9
115°	564.4	564.8	565.0	565.0	565.0	565.0	565.0
117.5°	637.8	637.7	637.7	637.6	637.5	637.4	637.3
120°	684.1	684.6	684.6	684.1	683.7	683.3	682.8
122.5°	729.1	729.4	729.3	728.9	728.4	728.0	727.5
125°	792.6	793.3	793.7	794.0	794.2	794.4	794.6
127.5°	854.5	854.4	854.2	854.1	853.9	853.7	853.5
130°	893.1	893.3	893.5	893.5	893.5	893.5	893.5
132.5°	930.7	930.9	930.9	930.7	930.5	930.4	930.2
135°	982.6	983.1	983.5	984.0	984.4	984.8	985.3
137.5°	1032.3	1032.8	1032.9	1032.8	1032.7	1032.5	1032.4
140°	1063.2	1063.8	1064.3	1064.5	1064.7	1064.9	1065.2
142.5°	1091.4	1091.9	1092.1	1092.2	1092.2	1092.3	1092.3
145°	1131.7	1131.9	1132.3	1132.7	1133.1	1133.6	1134.0
147.5°	1167.3	1167.5	1167.7	1167.9	1168.1	1168.4	1168.6
150°	1189.9	1189.9	1190.0	1190.3	1190.5	1190.7	1190.9
152.5°	1210.2	1210.5	1210.6	1210.5	1210.4	1210.2	1210.1
155°	1237.5	1238.4	1238.5	1237.9	1237.2	1236.5	1235.9
157.5°	1260.9	1262.0	1262.0	1260.9	1259.7	1258.6	1257.4
160°	1275.8	1277.1	1277.1	1275.8	1274.5	1273.1	1271.8
162.5°	1287.8	1289.1	1289.0	1287.5	1286.0	1284.5	1283.0
165°	1305.1	1306.8	1306.7	1304.7	1302.7	1300.7	1298.7
167.5°	1317.6	1319.5	1319.4	1317.2	1315.0	1312.7	1310.5
170°	1325.0	1326.8	1326.6	1324.4	1322.2	1319.9	1317.7
172.5°	1329.8	1331.6	1331.3	1328.9	1326.5	1324.1	1321.7
175°	1335.7	1337.7	1337.3	1334.7	1332.0	1329.4	1326.7
177.5°	1337.3	1338.8	1338.4	1336.3	1334.2	1332.0	1329.9
180°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7

(END OF REPORT)