

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: P332029-930

Luminaire Tested: **S123DIP-S1000D1025U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D1025U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6483.9 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

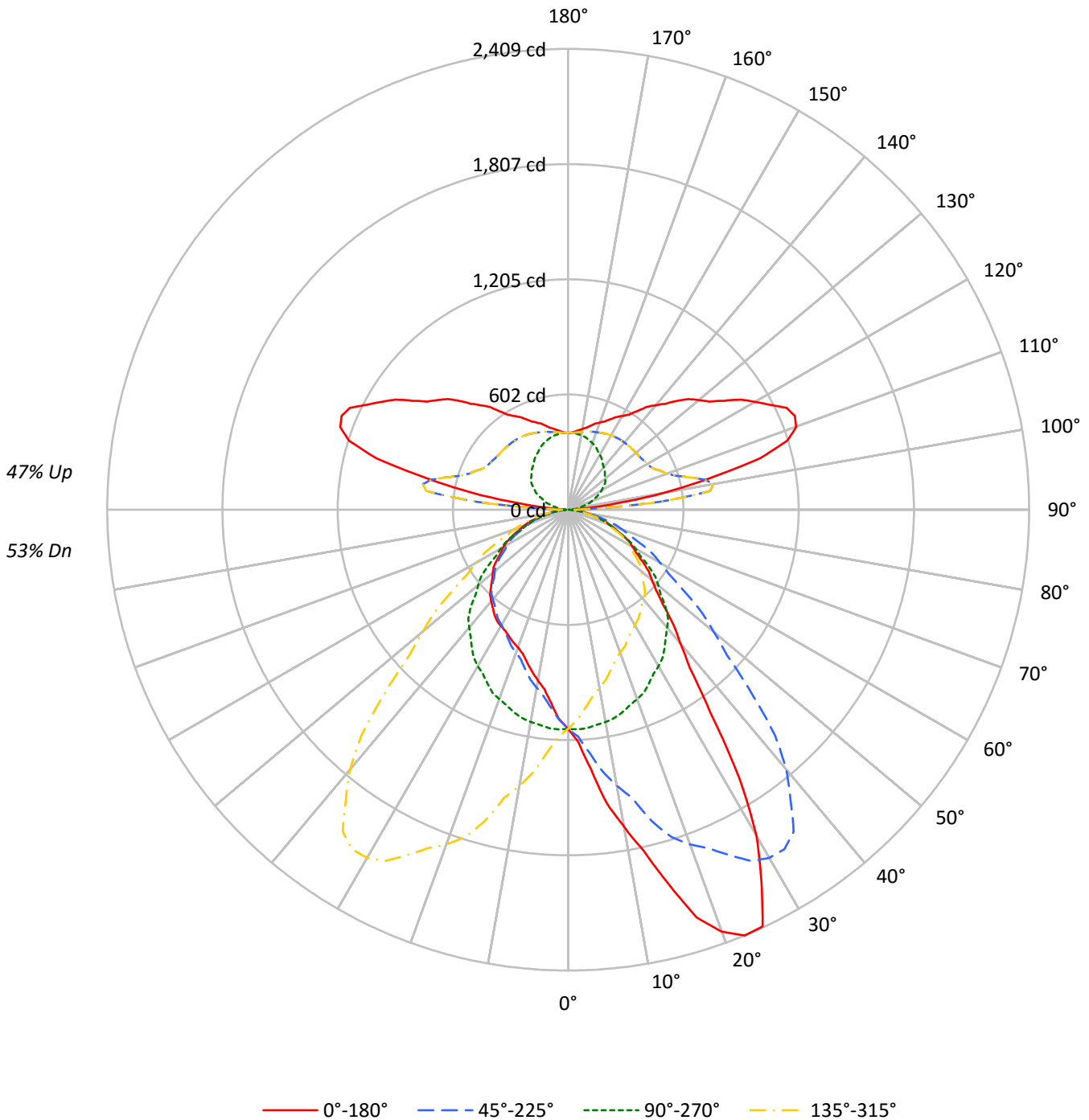
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	60	54	48	52	47	43	45	40	37	37	34	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	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	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12326	12326	12326	12326
5°	14699	12379	10970	12379
10°	18398	12316	9908	12316
15°	22566	12217	9225	12217
20°	26882	12062	8782	12062
25°	28544	11873	8684	11873
30°	24467	11737	8730	11737
35°	17015	11540	8821	11540
40°	12816	11311	8793	11311
45°	10641	10971	8681	10971
50°	9532	10275	8602	10275
55°	8912	9526	8496	9526
60°	8359	8742	8409	8742
65°	7857	7969	8140	7969
70°	7371	7091	7751	7091
75°	6600	6209	7107	6209
80°	5777	5089	6118	5089
85°	4520	3693	4113	3693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.7
10°-20°	361.7	5.6
20°-30°	607.1	9.4
30°-40°	687.4	10.6
40°-50°	616.4	9.5
50°-60°	497.4	7.7
60°-70°	346.6	5.3
70°-80°	182.2	2.8
80°-90°	47.7	0.7
90°-100°	223.7	3.5
100°-110°	633.5	9.8
110°-120°	623.2	9.6
120°-130°	497.1	7.7
130°-140°	391.9	6.0
140°-150°	292.5	4.5
150°-160°	203.9	3.1
160°-170°	119.8	1.8
170°-180°	39.0	0.6
0°-30°	1081.6	16.7
0°-40°	1768.9	27.3
0°-60°	2882.8	44.5
0°-90°	3459.3	53.4
90°-120°	1480.5	22.8
90°-150°	2662.0	41.1
90°-180°	3025.0	46.7
0°-180°	6483.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1360	1146	1015	1146	1360	141
15°	2025	1096	828	1096	2025	585
25°	2403	1000	731	1000	2403	1054
35°	1295	878	671	878	1295	841
45°	699	721	570	721	699	553
55°	475	508	453	508	475	426
65°	308	313	320	313	308	307
75°	159	149	171	149	159	170
85°	37	30	33	30	37	44
90°	24	2	24	2	24	14
95°	94	28	94	28	94	170
105°	1035	94	1035	94	1035	1021
115°	1259	167	1259	167	1259	1223
125°	993	232	993	232	993	900
135°	805	272	805	272	805	624
145°	629	310	629	310	629	400
155°	522	352	522	352	522	243
165°	455	385	455	385	455	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1215.2	1214.4	1212.1	1213.9	1210.4	1205.5	1205.0	1200.6	1187.7	1186.8	1183.3
5°	1360.4	1355.9	1355.4	1354.9	1347.0	1336.5	1316.5	1314.9	1288.3	1275.0	1258.8
7.5°	1548.3	1550.7	1542.5	1535.5	1511.7	1496.1	1474.6	1447.2	1414.5	1381.4	1359.3
10°	1683.3	1701.6	1678.9	1663.3	1648.9	1621.7	1590.1	1550.7	1511.3	1465.3	1430.3
12.5°	1828.0	1837.0	1832.4	1817.8	1795.4	1754.0	1697.9	1654.6	1618.3	1541.6	1510.6
15°	2025.0	2058.9	2037.3	1987.3	1988.4	1949.1	1875.8	1795.4	1752.6	1685.5	1594.0
17.5°	2235.0	2239.2	2230.0	2188.3	2160.6	2106.5	2038.9	1961.8	1875.3	1794.0	1697.0
20°	2346.8	2343.5	2324.1	2302.4	2254.7	2212.6	2138.8	2052.8	1941.8	1861.9	1756.0
22.5°	2409.0	2403.4	2394.2	2376.1	2336.4	2291.2	2224.9	2130.9	2025.3	1915.2	1792.8
25°	2403.4	2410.6	2411.7	2406.8	2392.9	2365.7	2313.5	2238.6	2133.2	1991.8	1864.2
27.5°	2185.9	2196.2	2225.8	2252.1	2281.5	2311.5	2307.5	2270.3	2192.3	2070.0	1914.1
30°	1968.5	1946.3	2001.2	2070.5	2117.7	2200.9	2247.5	2250.3	2206.4	2101.6	1949.5
32.5°	1666.6	1691.0	1715.3	1800.7	1903.7	1997.2	2089.9	2164.6	2173.2	2103.4	1970.4
35°	1294.9	1325.4	1369.8	1414.2	1525.2	1620.6	1783.7	1925.7	2038.9	2053.9	1972.3
37.5°	1043.5	1058.6	1086.6	1131.1	1203.7	1316.9	1443.1	1622.6	1786.6	1908.5	1913.8
40°	912.1	916.6	948.2	982.0	1040.8	1134.0	1247.7	1406.4	1602.8	1773.2	1844.2
42.5°	813.6	823.3	836.7	869.3	916.1	986.2	1091.9	1223.1	1403.1	1599.1	1738.1
45°	699.0	710.1	718.4	740.1	773.4	820.5	894.4	1014.2	1151.2	1353.7	1540.7
47.5°	623.4	624.3	630.5	646.8	669.4	704.8	757.0	834.0	959.8	1124.1	1316.0
50°	569.2	578.1	580.3	593.0	610.8	636.9	680.2	745.7	848.9	993.1	1169.5
52.5°	531.1	533.7	540.0	549.2	564.7	585.0	622.5	673.8	754.7	877.7	1039.9
55°	474.9	474.9	481.0	488.2	497.1	515.4	540.4	578.1	639.7	735.2	869.4
57.5°	423.0	425.7	430.1	432.3	439.9	451.9	472.8	501.4	547.4	620.9	727.6
60°	388.3	393.4	392.8	397.2	403.9	413.4	431.0	454.4	495.5	554.2	644.2
62.5°	358.2	357.8	357.8	363.1	369.7	378.7	390.3	410.4	445.3	497.4	574.0
65°	308.5	307.4	311.3	314.5	316.8	323.4	332.3	350.1	373.4	412.2	471.6
67.5°	264.3	261.1	263.2	264.3	268.1	273.3	281.6	292.6	311.1	342.3	387.0
70°	234.2	231.4	230.8	231.9	235.2	239.1	245.2	255.8	273.0	297.9	330.7
72.5°	203.1	201.1	201.1	203.5	205.0	207.6	211.9	221.6	235.2	254.0	284.5
75°	158.7	158.7	158.7	159.2	160.9	163.1	166.4	171.5	182.0	195.3	215.8
77.5°	119.0	118.9	118.1	118.1	120.5	121.5	122.3	126.9	132.8	141.8	156.8
80°	93.2	90.4	91.6	93.2	94.3	94.9	96.5	97.7	102.6	107.6	118.1
82.5°	69.2	66.9	67.1	69.7	69.9	70.4	72.2	73.7	75.6	80.1	85.8
85°	36.6	36.6	37.2	37.2	37.7	37.2	38.8	39.4	39.4	42.2	45.5
87.5°	18.0	17.3	17.6	17.9	17.6	17.7	18.0	18.3	18.6	19.2	19.1
90°	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4	19.6	20.4	17.9
92.5°	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5	94.4	125.1	137.7
95°	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9	391.4	482.6	429.7
97.5°	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3	800.1	747.9	547.6
100°	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5	931.0	770.7	520.8
102.5°	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7	937.5	728.4	481.8
105°	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9	887.9	654.3	433.7
107.5°	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8	801.0	588.9	403.2
110°	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6	746.2	551.8	391.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0	698.7	527.0	384.9
115°	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8	641.3	500.5	382.5
117.5°	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8	606.6	484.9	383.9
120°	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1	588.4	477.7	386.5
122.5°	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1	573.4	473.1	391.1
125°	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0	554.2	467.2	397.9
127.5°	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0	537.3	464.2	405.8
130°	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4	528.2	462.3	411.0
132.5°	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1	519.7	461.6	414.9
135°	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1	508.7	460.6	420.8
137.5°	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2	499.0	458.9	424.6
140°	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4	493.2	458.2	427.2
142.5°	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3	488.0	456.9	429.2
145°	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0	480.9	454.9	430.5
147.5°	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1	474.1	451.8	430.5
150°	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3	469.5	449.2	430.5
152.5°	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1	464.4	446.0	428.5
155°	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3	456.6	440.3	426.4
157.5°	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0	447.8	435.2	423.7
160°	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5	441.9	431.3	422.4
162.5°	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7	436.0	427.4	419.8
165°	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6	428.0	421.6	415.9
167.5°	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7	420.4	415.7	412.0
170°	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0	415.9	411.8	409.4
172.5°	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7	411.3	408.5	407.4
175°	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7	406.1	404.5	404.5
177.5°	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3	402.7	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1180.6	1177.0	1173.5	1167.3	1162.0	1154.5	1152.2	1149.6	1141.6	1134.5	1129.1
5°	1252.7	1239.4	1220.0	1202.2	1187.8	1168.4	1157.3	1145.7	1129.0	1114.0	1101.9
7.5°	1328.2	1302.0	1271.9	1239.2	1208.8	1179.5	1155.8	1134.8	1111.5	1089.4	1072.2
10°	1388.1	1350.4	1308.2	1262.7	1223.9	1186.2	1154.5	1126.8	1096.8	1070.7	1049.1
12.5°	1456.5	1400.5	1342.4	1287.1	1241.2	1188.9	1150.6	1115.2	1081.3	1049.9	1025.6
15°	1537.3	1466.3	1397.6	1321.5	1251.6	1186.2	1140.7	1096.3	1056.9	1024.7	993.7
17.5°	1611.0	1530.6	1439.9	1347.5	1263.1	1185.5	1121.9	1071.6	1022.4	983.0	952.0
20°	1652.8	1561.2	1458.6	1362.6	1269.4	1182.8	1113.0	1053.0	999.7	958.1	923.2
22.5°	1688.7	1581.6	1475.4	1372.8	1268.9	1175.7	1096.5	1034.9	977.1	936.4	899.2
25°	1726.0	1597.8	1491.3	1370.9	1255.0	1158.5	1069.7	999.7	942.1	894.4	856.1
27.5°	1757.9	1596.8	1470.3	1340.8	1233.0	1136.2	1041.5	966.5	905.2	853.4	814.6
30°	1779.2	1599.0	1448.6	1320.5	1211.7	1111.8	1019.7	944.3	880.0	827.2	790.6
32.5°	1792.6	1597.6	1428.6	1292.0	1177.9	1089.6	996.2	918.1	852.0	800.1	764.8
35°	1800.3	1587.9	1394.2	1233.3	1123.5	1037.5	959.3	878.2	808.9	760.7	720.7
37.5°	1784.8	1567.3	1354.3	1176.7	1056.5	971.8	906.0	837.0	770.6	717.5	683.1
40°	1760.4	1554.0	1323.2	1136.8	1010.3	928.7	872.7	805.0	739.6	689.1	656.9
42.5°	1713.8	1526.9	1289.1	1092.4	962.4	880.8	829.2	772.7	710.7	663.3	631.1
45°	1600.0	1468.0	1237.8	1025.8	891.5	807.2	761.7	720.7	664.6	618.6	590.8
47.5°	1442.3	1379.3	1163.7	955.6	817.7	736.5	689.3	656.2	615.3	578.1	551.5
50°	1332.6	1306.6	1113.5	907.7	768.4	689.1	643.6	613.6	584.2	547.1	522.6
52.5°	1206.2	1222.2	1054.9	857.9	718.3	640.3	597.5	573.6	546.9	516.4	495.1
55°	1028.1	1086.3	953.7	774.5	643.6	569.2	528.7	507.6	492.1	469.4	451.0
57.5°	861.3	935.4	844.3	688.5	570.2	506.1	467.2	444.3	434.3	422.4	408.0
60°	762.3	835.5	766.2	630.8	521.0	459.9	425.5	406.1	396.2	387.8	375.6
62.5°	674.0	748.1	689.8	572.3	472.5	416.0	386.0	367.0	359.3	355.0	344.5
65°	552.6	616.4	577.6	481.0	403.3	353.4	326.2	312.9	305.7	304.0	297.3
67.5°	449.7	498.3	470.0	399.0	337.9	294.7	271.7	260.3	254.8	254.2	249.2
70°	382.3	427.8	406.1	341.8	289.0	255.2	235.2	225.3	221.9	221.4	218.6
72.5°	329.9	361.6	344.4	290.7	250.0	219.2	204.6	194.2	190.4	191.2	189.3
75°	244.1	268.0	258.0	220.8	188.1	168.1	155.9	149.3	145.9	147.6	145.4
77.5°	175.6	190.8	181.7	156.0	135.8	121.4	112.4	108.3	105.3	105.2	104.2
80°	132.6	141.5	136.5	120.9	104.3	92.1	84.9	82.1	80.5	79.9	79.3
82.5°	94.4	102.0	96.1	85.4	74.1	66.8	62.7	59.0	57.8	58.1	57.6
85°	47.7	50.5	48.3	41.6	37.2	33.8	31.6	29.9	28.9	29.4	28.3
87.5°	19.5	19.5	17.6	15.6	14.3	12.6	12.2	11.0	10.4	10.8	10.8
90°	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6	3.3	4.9	7.3
92.5°	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1	15.0	21.9	28.1
95°	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6	30.1	39.1	52.9
97.5°	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2	48.0	55.0	67.0
100°	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3	61.1	66.8	78.1
102.5°	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9	75.3	80.4	91.2
105°	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4	96.9	101.7	111.5
107.5°	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2	118.6	123.4	133.0
110°	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8	134.3	138.4	147.3



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2	148.6	152.7	161.6
115°	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8	170.1	175.0	183.1
117.5°	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5	191.3	195.3	202.8
120°	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8	204.2	208.3	216.5
122.5°	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2	216.6	220.7	229.5
125°	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0	233.6	238.5	247.4
127.5°	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5	247.9	253.9	263.0
130°	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9	256.3	263.7	273.5
132.5°	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4	263.5	271.5	283.2
135°	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8	275.1	284.1	296.2
137.5°	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6	286.0	294.7	307.8
140°	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8	293.8	301.9	315.0
142.5°	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5	300.9	309.7	321.5
145°	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1	312.5	319.8	332.1
147.5°	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8	324.2	331.4	341.9
150°	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3	332.1	338.5	349.1
152.5°	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7	339.8	346.3	355.6
155°	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4	352.4	357.3	365.4
157.5°	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5	363.1	367.0	374.2
160°	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3	370.3	373.6	380.0
162.5°	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2	376.2	378.8	383.9
165°	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9	384.1	385.7	389.8
167.5°	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6	390.6	391.4	394.5
170°	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5	393.9	394.7	397.1
172.5°	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1	397.1	397.3	399.1
175°	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2	400.4	399.6	401.2
177.5°	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7	402.0	401.4	402.0
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1126.0	1122.9	1118.5	1111.8	1106.5	1098.0	1098.0	1099.4	1099.4	1098.9	1098.0
5°	1091.8	1083.5	1073.6	1061.9	1049.7	1037.5	1035.3	1030.9	1027.5	1025.2	1022.5
7.5°	1055.8	1041.1	1026.5	1010.2	995.3	983.0	974.4	967.4	962.8	957.9	954.4
10°	1031.4	1013.1	995.9	978.7	959.8	944.9	935.4	928.7	923.7	919.3	917.1
12.5°	1002.5	981.5	962.6	946.2	925.6	910.2	901.2	898.1	892.3	882.9	878.0
15°	960.3	940.9	918.2	893.2	883.2	864.4	853.9	848.9	845.5	838.3	836.1
17.5°	924.3	898.9	873.3	854.8	836.2	820.9	815.0	808.8	804.4	798.5	796.7
20°	895.4	872.7	849.4	829.4	810.0	793.4	788.4	783.9	779.5	776.7	774.5
22.5°	866.2	843.4	824.1	805.4	784.7	773.8	768.4	763.5	760.4	758.6	756.3
25°	825.0	805.0	783.4	766.7	750.1	742.9	739.6	736.8	734.6	731.8	731.2
27.5°	788.1	766.4	748.9	733.4	721.4	715.3	712.2	710.8	711.3	712.2	712.9
30°	760.7	740.7	726.3	712.9	701.8	696.3	695.7	695.7	698.0	698.5	699.6
32.5°	735.3	718.9	704.5	691.6	683.2	679.4	681.5	681.5	683.3	684.8	686.7
35°	698.5	684.0	672.9	661.9	654.7	656.3	657.5	658.5	661.3	664.6	666.9
37.5°	663.3	650.8	639.3	630.6	627.3	630.2	632.9	635.3	638.5	641.0	643.3
40°	638.1	628.6	617.5	609.8	610.8	612.5	614.7	617.5	620.3	621.9	624.2
42.5°	614.5	604.6	596.2	589.8	591.3	593.5	594.8	596.2	599.4	602.4	603.7
45°	578.7	570.9	563.1	559.2	560.4	561.5	562.6	564.3	567.0	569.2	569.8
47.5°	538.3	533.0	527.7	524.0	525.7	525.3	526.8	530.3	531.2	532.5	535.6
50°	512.7	507.6	501.6	500.4	500.4	500.4	501.0	505.4	505.4	507.6	509.9
52.5°	484.2	481.0	477.1	475.2	474.3	474.3	476.5	478.8	479.7	482.8	485.0
55°	442.2	438.9	435.5	433.8	432.8	433.8	438.3	439.4	442.2	443.8	445.5
57.5°	398.4	395.8	393.1	392.2	392.0	393.5	395.9	399.3	399.9	405.0	407.6
60°	369.5	365.6	363.4	363.4	362.3	367.3	366.2	371.7	372.8	376.2	380.0
62.5°	339.7	334.5	333.6	333.6	335.3	336.6	338.2	340.6	343.6	347.7	350.7
65°	291.8	289.0	292.9	292.4	291.3	294.6	294.6	297.3	300.7	304.6	310.7
67.5°	246.5	245.0	245.3	245.3	247.0	248.9	250.5	252.9	256.9	261.0	265.0
70°	215.8	217.5	214.7	217.0	218.6	219.2	220.3	223.6	228.0	230.8	235.2
72.5°	186.1	186.0	186.3	187.2	188.8	189.9	190.9	194.8	199.6	201.9	205.5
75°	143.2	142.6	144.2	144.2	147.0	148.1	149.3	150.9	155.3	158.7	161.4
77.5°	104.5	105.2	104.8	106.7	106.0	106.2	109.7	111.3	111.8	118.3	119.8
80°	78.8	79.9	80.5	81.0	81.5	80.5	84.3	86.0	86.0	89.8	92.6
82.5°	56.6	57.2	58.7	59.3	59.4	60.5	60.8	62.0	63.3	65.1	68.6
85°	28.3	29.9	30.5	29.9	30.5	29.4	31.1	31.6	32.2	32.2	32.2
87.5°	10.7	11.4	11.5	12.4	12.5	13.4	13.2	12.5	12.6	14.2	12.7
90°	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4	21.2	22.0	23.6
92.5°	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5	54.4	48.0	43.8
95°	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9	198.6	155.5	126.1
97.5°	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3	585.0	480.0	382.6
100°	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5	893.6	798.3	682.8
102.5°	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7	1033.6	978.0	904.8
105°	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9	1139.4	1154.8	1133.7
107.5°	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8	1126.0	1197.3	1226.3
110°	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6	1082.4	1184.9	1241.9



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0	1025.1	1140.0	1213.2
115°	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8	933.4	1053.0	1141.7
117.5°	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8	856.0	963.4	1053.4
120°	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1	813.0	910.7	992.9
122.5°	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1	778.5	869.0	945.3
125°	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0	735.7	813.8	878.9
127.5°	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0	698.1	768.6	827.8
130°	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4	674.7	740.5	795.9
132.5°	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1	652.5	713.9	766.6
135°	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1	620.9	673.8	720.2
137.5°	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2	590.5	636.1	676.3
140°	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4	572.9	612.0	647.0
142.5°	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3	556.0	589.9	620.3
145°	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0	533.9	559.9	583.5
147.5°	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1	517.4	538.4	555.2
150°	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3	507.0	524.1	539.6
152.5°	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1	497.3	512.4	525.2
155°	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3	483.4	495.6	505.4
157.5°	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0	469.9	479.3	487.0
160°	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5	461.5	469.5	475.2
162.5°	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7	452.3	459.8	464.9
165°	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6	439.4	445.2	449.2
167.5°	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7	429.5	432.8	435.7
170°	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0	422.4	425.6	427.2
172.5°	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7	416.5	419.1	420.1
175°	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7	408.5	410.2	410.2
177.5°	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3	404.0	404.6	404.6
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1094.9	1094.5	1097.6	1095.4	1097.6	1094.5	1094.9	1098.0	1098.9	1099.4	1099.4
5°	1019.2	1020.8	1015.3	1015.3	1015.3	1020.8	1019.2	1022.5	1025.2	1027.5	1030.9
7.5°	951.7	949.3	949.5	946.5	949.5	949.3	951.7	954.4	957.9	962.8	967.4
10°	910.4	907.1	906.0	906.5	906.0	907.1	910.4	917.1	919.3	923.7	928.7
12.5°	876.3	875.6	868.3	868.4	868.3	875.6	876.3	878.0	882.9	892.3	898.1
15°	836.1	825.6	824.4	827.8	824.4	825.6	836.1	836.1	838.3	845.5	848.9
17.5°	795.8	790.3	790.6	789.0	790.6	790.3	795.8	796.7	798.5	804.4	808.8
20°	774.5	771.2	770.6	766.7	770.6	771.2	774.5	774.5	776.7	779.5	783.9
22.5°	755.0	753.9	754.2	749.9	754.2	753.9	755.0	756.3	758.6	760.4	763.5
25°	730.7	733.4	731.2	731.2	731.2	733.4	730.7	731.2	731.8	734.6	736.8
27.5°	714.3	714.1	713.1	713.1	713.1	714.1	714.3	712.9	712.2	711.3	710.8
30°	701.8	701.2	702.4	702.4	702.4	701.2	701.8	699.6	698.5	698.0	695.7
32.5°	689.4	690.2	690.4	690.8	690.4	690.2	689.4	686.7	684.8	683.3	681.5
35°	670.2	670.7	672.5	671.3	672.5	670.7	670.2	666.9	664.6	661.3	658.5
37.5°	644.2	646.8	646.2	647.1	646.2	646.8	644.2	643.3	641.0	638.5	635.3
40°	624.7	626.4	625.8	625.8	625.8	626.4	624.7	624.2	621.9	620.3	617.5
42.5°	604.7	605.9	604.5	603.6	604.5	605.9	604.7	603.7	602.4	599.4	596.2
45°	572.0	570.9	572.6	570.3	572.6	570.9	572.0	569.8	569.2	567.0	564.3
47.5°	535.4	536.5	537.0	538.6	537.0	536.5	535.4	535.6	532.5	531.2	530.3
50°	510.9	514.3	514.3	513.7	514.3	514.3	510.9	509.9	507.6	505.4	505.4
52.5°	487.0	488.5	490.8	490.6	490.8	488.5	487.0	485.0	482.8	479.7	478.8
55°	450.0	451.0	452.2	452.7	452.2	451.0	450.0	445.5	443.8	442.2	439.4
57.5°	411.6	411.1	413.8	414.6	413.8	411.1	411.6	407.6	405.0	399.9	399.3
60°	384.5	384.5	388.9	390.6	388.9	384.5	384.5	380.0	376.2	372.8	371.7
62.5°	355.6	357.4	361.8	359.5	361.8	357.4	355.6	350.7	347.7	343.6	340.6
65°	313.5	317.9	317.3	319.6	317.3	317.9	313.5	310.7	304.6	300.7	297.3
67.5°	269.4	272.1	276.1	276.5	276.1	272.1	269.4	265.0	261.0	256.9	252.9
70°	239.7	242.5	244.7	246.3	244.7	242.5	239.7	235.2	230.8	228.0	223.6
72.5°	210.8	212.3	217.6	215.2	217.6	212.3	210.8	205.5	201.9	199.6	194.8
75°	165.3	169.2	172.5	170.9	172.5	169.2	165.3	161.4	158.7	155.3	150.9
77.5°	122.3	126.1	127.7	126.3	127.7	126.1	122.3	119.8	118.3	111.8	111.3
80°	96.5	96.0	99.3	98.7	99.3	96.0	96.5	92.6	89.8	86.0	86.0
82.5°	70.8	70.3	71.8	72.2	71.8	70.3	70.8	68.6	65.1	63.3	62.0
85°	34.4	36.0	33.8	33.3	33.8	36.0	34.4	32.2	32.2	32.2	31.6
87.5°	12.6	12.7	12.4	11.8	12.4	12.7	12.6	12.7	14.2	12.6	12.5
90°	22.7	23.6	24.4	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4
92.5°	42.3	39.9	40.7	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5
95°	110.7	103.4	97.7	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9
97.5°	322.6	286.0	264.0	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3
100°	600.6	541.2	509.5	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5
102.5°	840.8	793.8	767.3	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7
105°	1096.2	1065.3	1039.3	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9
107.5°	1226.9	1216.5	1207.7	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8
110°	1264.7	1271.2	1269.6	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6



TEST NUMBER: P332029-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1254.9	1275.0	1281.2	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0
115°	1202.8	1238.6	1254.9	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8
117.5°	1117.0	1158.1	1181.5	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8
120°	1057.1	1102.7	1122.3	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1
122.5°	1002.5	1043.5	1064.9	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1
125°	931.0	966.8	987.2	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0
127.5°	874.2	904.8	923.2	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0
130°	839.0	868.4	885.4	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4
132.5°	807.1	836.4	851.6	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1
135°	760.1	784.5	799.2	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1
137.5°	709.8	734.6	746.9	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2
140°	677.9	700.7	713.7	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4
142.5°	646.7	666.8	678.6	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3
145°	603.8	620.9	627.5	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0
147.5°	570.6	582.2	588.4	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1
150°	551.8	560.7	565.6	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3
152.5°	534.8	543.2	546.1	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1
155°	512.7	519.2	520.8	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3
157.5°	493.3	498.2	499.5	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0
160°	480.9	485.8	485.8	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5
162.5°	468.6	472.8	472.8	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7
165°	452.5	455.8	454.9	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6
167.5°	437.2	439.4	438.6	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7
170°	428.0	429.7	428.8	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0
172.5°	420.3	421.9	420.4	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7
175°	410.2	411.0	410.2	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7
177.5°	404.0	404.6	403.3	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1098.0	1098.0	1106.5	1111.8	1118.5	1122.9	1126.0	1129.1	1134.5	1141.6	1149.6
5°	1035.3	1037.5	1049.7	1061.9	1073.6	1083.5	1091.8	1101.9	1114.0	1129.0	1145.7
7.5°	974.4	983.0	995.3	1010.2	1026.5	1041.1	1055.8	1072.2	1089.4	1111.5	1134.8
10°	935.4	944.9	959.8	978.7	995.9	1013.1	1031.4	1049.1	1070.7	1096.8	1126.8
12.5°	901.2	910.2	925.6	946.2	962.6	981.5	1002.5	1025.6	1049.9	1081.3	1115.2
15°	853.9	864.4	883.2	893.2	918.2	940.9	960.3	993.7	1024.7	1056.9	1096.3
17.5°	815.0	820.9	836.2	854.8	873.3	898.9	924.3	952.0	983.0	1022.4	1071.6
20°	788.4	793.4	810.0	829.4	849.4	872.7	895.4	923.2	958.1	999.7	1053.0
22.5°	768.4	773.8	784.7	805.4	824.1	843.4	866.2	899.2	936.4	977.1	1034.9
25°	739.6	742.9	750.1	766.7	783.4	805.0	825.0	856.1	894.4	942.1	999.7
27.5°	712.2	715.3	721.4	733.4	748.9	766.4	788.1	814.6	853.4	905.2	966.5
30°	695.7	696.3	701.8	712.9	726.3	740.7	760.7	790.6	827.2	880.0	944.3
32.5°	681.5	679.4	683.2	691.6	704.5	718.9	735.3	764.8	800.1	852.0	918.1
35°	657.5	656.3	654.7	661.9	672.9	684.0	698.5	720.7	760.7	808.9	878.2
37.5°	632.9	630.2	627.3	630.6	639.3	650.8	663.3	683.1	717.5	770.6	837.0
40°	614.7	612.5	610.8	609.8	617.5	628.6	638.1	656.9	689.1	739.6	805.0
42.5°	594.8	593.5	591.3	589.8	596.2	604.6	614.5	631.1	663.3	710.7	772.7
45°	562.6	561.5	560.4	559.2	563.1	570.9	578.7	590.8	618.6	664.6	720.7
47.5°	526.8	525.3	525.7	524.0	527.7	533.0	538.3	551.5	578.1	615.3	656.2
50°	501.0	500.4	500.4	500.4	501.6	507.6	512.7	522.6	547.1	584.2	613.6
52.5°	476.5	474.3	474.3	475.2	477.1	481.0	484.2	495.1	516.4	546.9	573.6
55°	438.3	433.8	432.8	433.8	435.5	438.9	442.2	451.0	469.4	492.1	507.6
57.5°	395.9	393.5	392.0	392.2	393.1	395.8	398.4	408.0	422.4	434.3	444.3
60°	366.2	367.3	362.3	363.4	363.4	365.6	369.5	375.6	387.8	396.2	406.1
62.5°	338.2	336.6	335.3	333.6	333.6	334.5	339.7	344.5	355.0	359.3	367.0
65°	294.6	294.6	291.3	292.4	292.9	289.0	291.8	297.3	304.0	305.7	312.9
67.5°	250.5	248.9	247.0	245.3	245.3	245.0	246.5	249.2	254.2	254.8	260.3
70°	220.3	219.2	218.6	217.0	214.7	217.5	215.8	218.6	221.4	221.9	225.3
72.5°	190.9	189.9	188.8	187.2	186.3	186.0	186.1	189.3	191.2	190.4	194.2
75°	149.3	148.1	147.0	144.2	144.2	142.6	143.2	145.4	147.6	145.9	149.3
77.5°	109.7	106.2	106.0	106.7	104.8	105.2	104.5	104.2	105.2	105.3	108.3
80°	84.3	80.5	81.5	81.0	80.5	79.9	78.8	79.3	79.9	80.5	82.1
82.5°	60.8	60.5	59.4	59.3	58.7	57.2	56.6	57.6	58.1	57.8	59.0
85°	31.1	29.4	30.5	29.9	30.5	29.9	28.3	28.3	29.4	28.9	29.9
87.5°	13.2	13.4	12.5	12.4	11.5	11.4	10.7	10.8	10.8	10.4	11.0
90°	19.6	20.4	17.9	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6
92.5°	94.4	125.1	137.7	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1
95°	391.4	482.6	429.7	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6
97.5°	800.1	747.9	547.6	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2
100°	931.0	770.7	520.8	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3
102.5°	937.5	728.4	481.8	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9
105°	887.9	654.3	433.7	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4
107.5°	801.0	588.9	403.2	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2
110°	746.2	551.8	391.4	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	698.7	527.0	384.9	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2
115°	641.3	500.5	382.5	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8
117.5°	606.6	484.9	383.9	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5
120°	588.4	477.7	386.5	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8
122.5°	573.4	473.1	391.1	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2
125°	554.2	467.2	397.9	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0
127.5°	537.3	464.2	405.8	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5
130°	528.2	462.3	411.0	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9
132.5°	519.7	461.6	414.9	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4
135°	508.7	460.6	420.8	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8
137.5°	499.0	458.9	424.6	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6
140°	493.2	458.2	427.2	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8
142.5°	488.0	456.9	429.2	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5
145°	480.9	454.9	430.5	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1
147.5°	474.1	451.8	430.5	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8
150°	469.5	449.2	430.5	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3
152.5°	464.4	446.0	428.5	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7
155°	456.6	440.3	426.4	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4
157.5°	447.8	435.2	423.7	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5
160°	441.9	431.3	422.4	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3
162.5°	436.0	427.4	419.8	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2
165°	428.0	421.6	415.9	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9
167.5°	420.4	415.7	412.0	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6
170°	415.9	411.8	409.4	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5
172.5°	411.3	408.5	407.4	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1
175°	406.1	404.5	404.5	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2
177.5°	402.7	402.0	402.7	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332029-930

CATALOG NUMBER: S123DIP-S1000D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1152.2	1154.5	1162.0	1167.3	1173.5	1177.0	1180.6	1183.3	1186.8	1187.7	1200.6
5°	1157.3	1168.4	1187.8	1202.2	1220.0	1239.4	1252.7	1258.8	1275.0	1288.3	1314.9
7.5°	1155.8	1179.5	1208.8	1239.2	1271.9	1302.0	1328.2	1359.3	1381.4	1414.5	1447.2
10°	1154.5	1186.2	1223.9	1262.7	1308.2	1350.4	1388.1	1430.3	1465.3	1511.3	1550.7
12.5°	1150.6	1188.9	1241.2	1287.1	1342.4	1400.5	1456.5	1510.6	1541.6	1618.3	1654.6
15°	1140.7	1186.2	1251.6	1321.5	1397.6	1466.3	1537.3	1594.0	1685.5	1752.6	1795.4
17.5°	1121.9	1185.5	1263.1	1347.5	1439.9	1530.6	1611.0	1697.0	1794.0	1875.3	1961.8
20°	1113.0	1182.8	1269.4	1362.6	1458.6	1561.2	1652.8	1756.0	1861.9	1941.8	2052.8
22.5°	1096.5	1175.7	1268.9	1372.8	1475.4	1581.6	1688.7	1792.8	1915.2	2025.3	2130.9
25°	1069.7	1158.5	1255.0	1370.9	1491.3	1597.8	1726.0	1864.2	1991.8	2133.2	2238.6
27.5°	1041.5	1136.2	1233.0	1340.8	1470.3	1596.8	1757.9	1914.1	2070.0	2192.3	2270.3
30°	1019.7	1111.8	1211.7	1320.5	1448.6	1599.0	1779.2	1949.5	2101.6	2206.4	2250.3
32.5°	996.2	1089.6	1177.9	1292.0	1428.6	1597.6	1792.6	1970.4	2103.4	2173.2	2164.6
35°	959.3	1037.5	1123.5	1233.3	1394.2	1587.9	1800.3	1972.3	2053.9	2038.9	1925.7
37.5°	906.0	971.8	1056.5	1176.7	1354.3	1567.3	1784.8	1913.8	1908.5	1786.6	1622.6
40°	872.7	928.7	1010.3	1136.8	1323.2	1554.0	1760.4	1844.2	1773.2	1602.8	1406.4
42.5°	829.2	880.8	962.4	1092.4	1289.1	1526.9	1713.8	1738.1	1599.1	1403.1	1223.1
45°	761.7	807.2	891.5	1025.8	1237.8	1468.0	1600.0	1540.7	1353.7	1151.2	1014.2
47.5°	689.3	736.5	817.7	955.6	1163.7	1379.3	1442.3	1316.0	1124.1	959.8	834.0
50°	643.6	689.1	768.4	907.7	1113.5	1306.6	1332.6	1169.5	993.1	848.9	745.7
52.5°	597.5	640.3	718.3	857.9	1054.9	1222.2	1206.2	1039.9	877.7	754.7	673.8
55°	528.7	569.2	643.6	774.5	953.7	1086.3	1028.1	869.4	735.2	639.7	578.1
57.5°	467.2	506.1	570.2	688.5	844.3	935.4	861.3	727.6	620.9	547.4	501.4
60°	425.5	459.9	521.0	630.8	766.2	835.5	762.3	644.2	554.2	495.5	454.4
62.5°	386.0	416.0	472.5	572.3	689.8	748.1	674.0	574.0	497.4	445.3	410.4
65°	326.2	353.4	403.3	481.0	577.6	616.4	552.6	471.6	412.2	373.4	350.1
67.5°	271.7	294.7	337.9	399.0	470.0	498.3	449.7	387.0	342.3	311.1	292.6
70°	235.2	255.2	289.0	341.8	406.1	427.8	382.3	330.7	297.9	273.0	255.8
72.5°	204.6	219.2	250.0	290.7	344.4	361.6	329.9	284.5	254.0	235.2	221.6
75°	155.9	168.1	188.1	220.8	258.0	268.0	244.1	215.8	195.3	182.0	171.5
77.5°	112.4	121.4	135.8	156.0	181.7	190.8	175.6	156.8	141.8	132.8	126.9
80°	84.9	92.1	104.3	120.9	136.5	141.5	132.6	118.1	107.6	102.6	97.7
82.5°	62.7	66.8	74.1	85.4	96.1	102.0	94.4	85.8	80.1	75.6	73.7
85°	31.6	33.8	37.2	41.6	48.3	50.5	47.7	45.5	42.2	39.4	39.4
87.5°	12.2	12.6	14.3	15.6	17.6	19.5	19.5	19.1	19.2	18.6	18.3
90°	3.3	4.9	7.3	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4
92.5°	15.0	21.9	28.1	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5
95°	30.1	39.1	52.9	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9
97.5°	48.0	55.0	67.0	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3
100°	61.1	66.8	78.1	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5
102.5°	75.3	80.4	91.2	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7
105°	96.9	101.7	111.5	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9
107.5°	118.6	123.4	133.0	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8
110°	134.3	138.4	147.3	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	152.7	161.6	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0
115°	170.1	175.0	183.1	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8
117.5°	191.3	195.3	202.8	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8
120°	204.2	208.3	216.5	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1
122.5°	216.6	220.7	229.5	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1
125°	233.6	238.5	247.4	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0
127.5°	247.9	253.9	263.0	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0
130°	256.3	263.7	273.5	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4
132.5°	263.5	271.5	283.2	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1
135°	275.1	284.1	296.2	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1
137.5°	286.0	294.7	307.8	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2
140°	293.8	301.9	315.0	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4
142.5°	300.9	309.7	321.5	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3
145°	312.5	319.8	332.1	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0
147.5°	324.2	331.4	341.9	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1
150°	332.1	338.5	349.1	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3
152.5°	339.8	346.3	355.6	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1
155°	352.4	357.3	365.4	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3
157.5°	363.1	367.0	374.2	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0
160°	370.3	373.6	380.0	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5
162.5°	376.2	378.8	383.9	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7
165°	384.1	385.7	389.8	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6
167.5°	390.6	391.4	394.5	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7
170°	393.9	394.7	397.1	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0
172.5°	397.1	397.3	399.1	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7
175°	400.4	399.6	401.2	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7
177.5°	402.0	401.4	402.0	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1205.0	1205.5	1210.4	1213.9	1212.1	1214.4	1215.2
5°	1316.5	1336.5	1347.0	1354.9	1355.4	1355.9	1360.4
7.5°	1474.6	1496.1	1511.7	1535.5	1542.5	1550.7	1548.3
10°	1590.1	1621.7	1648.9	1663.3	1678.9	1701.6	1683.3
12.5°	1697.9	1754.0	1795.4	1817.8	1832.4	1837.0	1828.0
15°	1875.8	1949.1	1988.4	1987.3	2037.3	2058.9	2025.0
17.5°	2038.9	2106.5	2160.6	2188.3	2230.0	2239.2	2235.0
20°	2138.8	2212.6	2254.7	2302.4	2324.1	2343.5	2346.8
22.5°	2224.9	2291.2	2336.4	2376.1	2394.2	2403.4	2409.0
25°	2313.5	2365.7	2392.9	2406.8	2411.7	2410.6	2403.4
27.5°	2307.5	2311.5	2281.5	2252.1	2225.8	2196.2	2185.9
30°	2247.5	2200.9	2117.7	2070.5	2001.2	1946.3	1968.5
32.5°	2089.9	1997.2	1903.7	1800.7	1715.3	1691.0	1666.6
35°	1783.7	1620.6	1525.2	1414.2	1369.8	1325.4	1294.9
37.5°	1443.1	1316.9	1203.7	1131.1	1086.6	1058.6	1043.5
40°	1247.7	1134.0	1040.8	982.0	948.2	916.6	912.1
42.5°	1091.9	986.2	916.1	869.3	836.7	823.3	813.6
45°	894.4	820.5	773.4	740.1	718.4	710.1	699.0
47.5°	757.0	704.8	669.4	646.8	630.5	624.3	623.4
50°	680.2	636.9	610.8	593.0	580.3	578.1	569.2
52.5°	622.5	585.0	564.7	549.2	540.0	533.7	531.1
55°	540.4	515.4	497.1	488.2	481.0	474.9	474.9
57.5°	472.8	451.9	439.9	432.3	430.1	425.7	423.0
60°	431.0	413.4	403.9	397.2	392.8	393.4	388.3
62.5°	390.3	378.7	369.7	363.1	357.8	357.8	358.2
65°	332.3	323.4	316.8	314.5	311.3	307.4	308.5
67.5°	281.6	273.3	268.1	264.3	263.2	261.1	264.3
70°	245.2	239.1	235.2	231.9	230.8	231.4	234.2
72.5°	211.9	207.6	205.0	203.5	201.1	201.1	203.1
75°	166.4	163.1	160.9	159.2	158.7	158.7	158.7
77.5°	122.3	121.5	120.5	118.1	118.1	118.9	119.0
80°	96.5	94.9	94.3	93.2	91.6	90.4	93.2
82.5°	72.2	70.4	69.9	69.7	67.1	66.9	69.2
85°	38.8	37.2	37.7	37.2	37.2	36.6	36.6
87.5°	18.0	17.7	17.6	17.9	17.6	17.3	18.0
90°	21.2	22.0	23.6	22.7	23.6	24.4	23.6
92.5°	54.4	48.0	43.8	42.3	39.9	40.7	39.2
95°	198.6	155.5	126.1	110.7	103.4	97.7	94.4
97.5°	585.0	480.0	382.6	322.6	286.0	264.0	257.0
100°	893.6	798.3	682.8	600.6	541.2	509.5	510.3
102.5°	1033.6	978.0	904.8	840.8	793.8	767.3	748.5
105°	1139.4	1154.8	1133.7	1096.2	1065.3	1039.3	1035.2
107.5°	1126.0	1197.3	1226.3	1226.9	1216.5	1207.7	1200.2
110°	1082.4	1184.9	1241.9	1264.7	1271.2	1269.6	1268.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1025.1	1140.0	1213.2	1254.9	1275.0	1281.2	1281.6
115°	933.4	1053.0	1141.7	1202.8	1238.6	1254.9	1259.0
117.5°	856.0	963.4	1053.4	1117.0	1158.1	1181.5	1187.0
120°	813.0	910.7	992.9	1057.1	1102.7	1122.3	1127.2
122.5°	778.5	869.0	945.3	1002.5	1043.5	1064.9	1071.1
125°	735.7	813.8	878.9	931.0	966.8	987.2	992.9
127.5°	698.1	768.6	827.8	874.2	904.8	923.2	928.4
130°	674.7	740.5	795.9	839.0	868.4	885.4	891.9
132.5°	652.5	713.9	766.6	807.1	836.4	851.6	856.1
135°	620.9	673.8	720.2	760.1	784.5	799.2	804.9
137.5°	590.5	636.1	676.3	709.8	734.6	746.9	750.6
140°	572.9	612.0	647.0	677.9	700.7	713.7	712.9
142.5°	556.0	589.9	620.3	646.7	666.8	678.6	677.8
145°	533.9	559.9	583.5	603.8	620.9	627.5	629.1
147.5°	517.4	538.4	555.2	570.6	582.2	588.4	589.1
150°	507.0	524.1	539.6	551.8	560.7	565.6	565.6
152.5°	497.3	512.4	525.2	534.8	543.2	546.1	546.1
155°	483.4	495.6	505.4	512.7	519.2	520.8	521.6
157.5°	469.9	479.3	487.0	493.3	498.2	499.5	499.4
160°	461.5	469.5	475.2	480.9	485.8	485.8	485.0
162.5°	452.3	459.8	464.9	468.6	472.8	472.8	472.0
165°	439.4	445.2	449.2	452.5	455.8	454.9	454.9
167.5°	429.5	432.8	435.7	437.2	439.4	438.6	438.6
170°	422.4	425.6	427.2	428.0	429.7	428.8	428.8
172.5°	416.5	419.1	420.1	420.3	421.9	420.4	419.8
175°	408.5	410.2	410.2	410.2	411.0	410.2	409.4
177.5°	404.0	404.6	404.6	404.0	404.6	403.3	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0

(END OF REPORT)