

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: P332038-930

Luminaire Tested: **S123DIP-S1000D1195U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332038-930
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-S1000D1195U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6980.4 lumens
Efficiency: N/A
Efficacy: 106.7 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

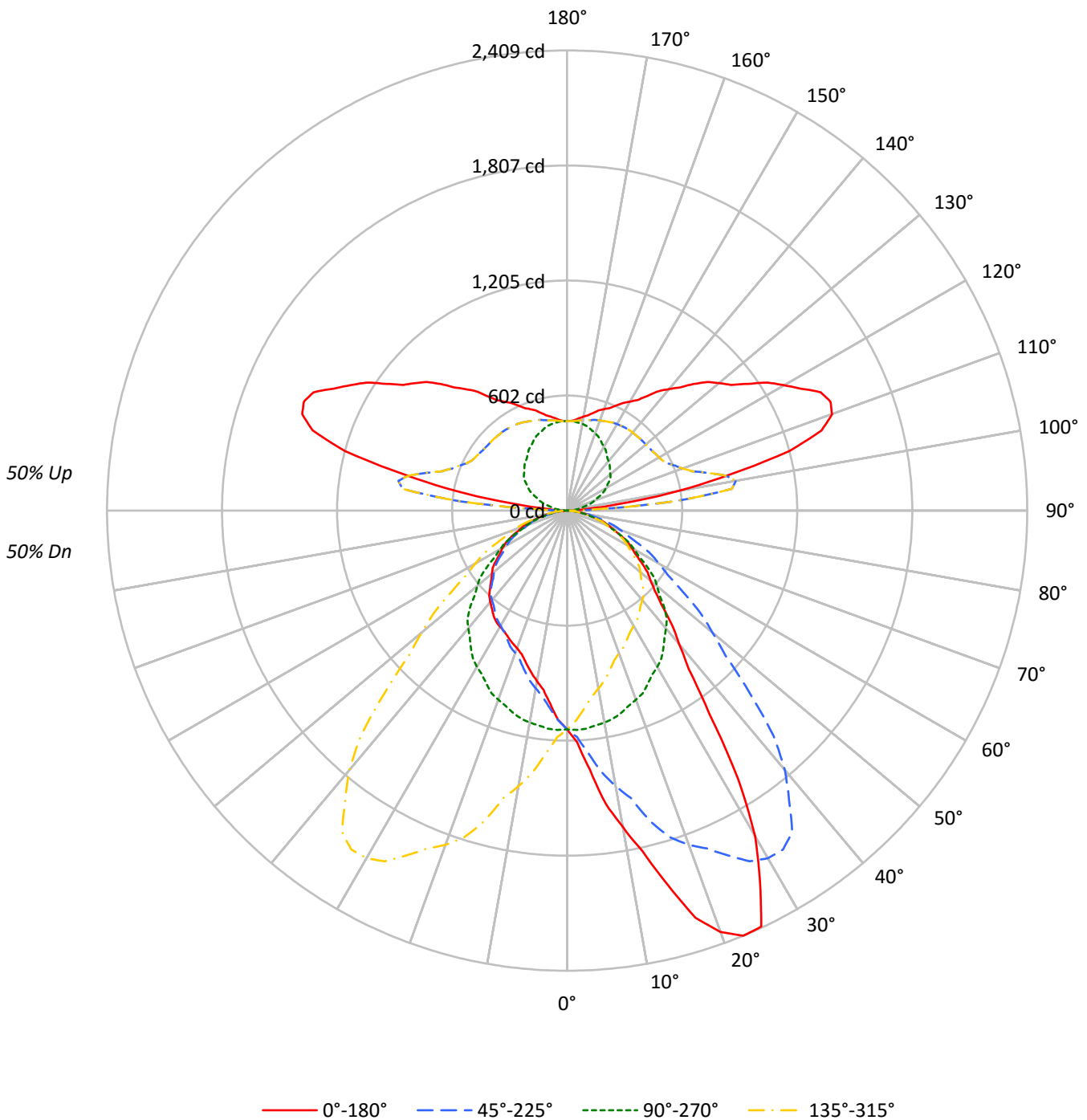
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0																			
RCR																																														
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																												
1	98	94	90	87	90	87	83	80	73	71	69	61	59	58	50	49	48	42																												
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36																												
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31																												
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26																												
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23																												
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20																												
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18																												
8	54	42	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16																												
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15																												
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15	13																												

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	1.6
10°-20°	361.7	5.2
20°-30°	607.1	8.7
30°-40°	687.4	9.8
40°-50°	616.4	8.8
50°-60°	497.4	7.1
60°-70°	346.6	5.0
70°-80°	182.2	2.6
80°-90°	48.2	0.7
90°-100°	260.4	3.7
100°-110°	737.4	10.6
110°-120°	725.4	10.4
120°-130°	578.6	8.3
130°-140°	456.2	6.5
140°-150°	340.5	4.9
150°-160°	237.3	3.4
160°-170°	139.4	2.0
170°-180°	45.4	0.6
0°-30°	1081.6	15.5
0°-40°	1768.9	25.3
0°-60°	2882.8	41.3
0°-90°	3459.8	49.6
90°-120°	1723.2	24.7
90°-150°	3098.5	44.4
90°-180°	3521.0	50.4
0°-180°	6980.4	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°	28	2	28	2	28	16
95°	110	32	110	32	110	198
105°	1205	110	1205	110	1205	1189
115°	1465	194	1465	194	1465	1424
125°	1156	270	1156	270	1156	1047
135°	937	316	937	316	937	727
145°	732	361	732	361	732	466
155°	607	410	607	410	607	283
165°	530	448	530	448	530	151
175°	476	467	476	467	476	46
180°	468	468	468	468	468	



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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°	18.8	18.1	18.3	18.6	18.3	18.4	18.7	18.9	19.2	19.8	19.7
90°	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6	22.7	23.6	20.9
92.5°	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7	109.9	145.7	160.3
95°	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0	455.6	561.7	500.2
97.5°	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0	931.3	870.5	637.3
100°	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8	1083.7	897.1	606.3
102.5°	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5	1091.2	847.8	560.8
105°	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4	1033.5	761.6	504.9
107.5°	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7	932.3	685.4	469.3
110°	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6	868.6	642.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0	813.3	613.4	448.1
115°	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7	746.4	582.5	445.2
117.5°	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0	706.0	564.4	446.9
120°	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4	684.9	556.0	450.0
122.5°	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4	667.4	550.7	455.3
125°	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1	645.1	543.7	463.2
127.5°	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5	625.4	540.3	472.3
130°	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0	614.7	538.0	478.3
132.5°	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1	605.0	537.3	482.9
135°	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5	592.1	536.1	489.8
137.5°	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2	580.8	534.0	494.3
140°	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6	574.1	533.3	497.3
142.5°	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7	567.9	531.8	499.6
145°	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1	559.9	529.5	501.1
147.5°	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5	551.9	525.9	501.1
150°	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3	546.6	522.9	501.1
152.5°	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0	540.5	519.1	498.8
155°	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5	531.4	512.5	496.4
157.5°	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3	521.1	506.6	493.2
160°	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7	514.4	502.1	491.6
162.5°	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6	507.5	497.5	488.6
165°	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8	498.2	490.6	484.0
167.5°	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6	489.3	483.9	479.5
170°	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8	484.0	479.3	476.5
172.5°	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7	478.7	475.5	474.2
175°	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6	472.7	470.8	470.8
177.5°	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4	468.7	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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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°	20.1	19.9	18.0	15.8	14.6	12.6	12.3	11.0	10.5	10.9	11.0
90°	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9	3.8	5.7	8.6
92.5°	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7	17.4	25.4	32.8
95°	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2	35.1	45.5	61.6
97.5°	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0	55.8	64.0	78.0
100°	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1	71.0	77.7	90.9
102.5°	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0	87.7	93.6	106.1
105°	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9	112.8	118.4	129.8
107.5°	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3	138.1	143.6	154.7
110°	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4	156.3	161.0	171.5



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2	173.0	177.7	188.1
115°	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2	198.0	203.7	213.1
117.5°	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3	222.6	227.3	236.0
120°	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9	237.7	242.5	252.0
122.5°	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3	252.2	256.9	267.1
125°	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9	271.9	277.5	288.0
127.5°	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7	288.5	295.5	306.1
130°	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5	298.4	306.9	318.3
132.5°	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1	306.7	316.0	329.6
135°	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4	320.2	330.6	344.8
137.5°	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9	332.9	343.1	358.2
140°	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2	341.9	351.4	366.6
142.5°	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3	350.3	360.5	374.1
145°	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9	363.7	372.3	386.5
147.5°	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7	377.4	385.7	398.0
150°	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6	386.5	394.0	406.3
152.5°	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4	395.6	403.2	413.9
155°	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2	410.2	415.9	425.3
157.5°	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9	422.7	427.2	435.5
160°	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0	431.0	434.8	442.4
162.5°	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8	437.8	440.8	446.9
165°	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1	447.1	449.0	453.7
167.5°	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8	454.7	455.6	459.3
170°	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4	458.4	459.4	462.3
172.5°	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4	462.3	462.4	464.6
175°	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0	466.0	465.1	467.0
177.5°	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7	468.0	467.2	468.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-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°	10.9	11.8	11.9	12.9	13.0	14.0	13.9	13.2	13.4	14.9	13.5
90°	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6	24.6	25.6	27.5
92.5°	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7	63.3	55.8	51.0
95°	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0	231.1	180.9	146.8
97.5°	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0	680.9	558.7	445.4
100°	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8	1040.1	929.3	794.8
102.5°	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5	1203.0	1138.4	1053.1
105°	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4	1326.2	1344.2	1319.6
107.5°	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7	1310.6	1393.6	1427.3
110°	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6	1259.9	1379.2	1445.5



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0	1193.2	1326.9	1412.2
115°	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7	1086.5	1225.7	1329.0
117.5°	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0	996.3	1121.4	1226.1
120°	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4	946.3	1060.0	1155.7
122.5°	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4	906.1	1011.5	1100.3
125°	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1	856.3	947.2	1023.0
127.5°	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5	812.5	894.5	963.5
130°	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0	785.3	862.0	926.4
132.5°	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1	759.5	831.0	892.3
135°	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5	722.8	784.3	838.3
137.5°	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2	687.3	740.4	787.2
140°	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6	666.8	712.3	753.1
142.5°	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7	647.2	686.6	722.0
145°	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1	621.4	651.8	679.1
147.5°	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5	602.3	626.7	646.2
150°	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3	590.1	610.0	628.0
152.5°	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0	578.8	596.4	611.4
155°	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5	562.6	576.9	588.2
157.5°	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3	547.0	557.9	566.8
160°	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7	537.1	546.6	553.2
162.5°	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6	526.5	535.2	541.0
165°	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8	511.5	518.1	522.9
167.5°	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6	499.9	503.8	507.2
170°	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8	491.6	495.4	497.3
172.5°	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7	484.8	487.9	488.9
175°	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6	475.5	477.4	477.4
177.5°	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4	470.2	471.0	471.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-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°	13.3	13.5	13.2	12.6	13.2	13.5	13.3	13.5	14.9	13.4	13.2
90°	26.5	27.5	28.5	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6
92.5°	49.2	46.4	47.4	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7
95°	128.8	120.3	113.7	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0
97.5°	375.5	332.9	307.3	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0
100°	699.0	629.9	593.0	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8
102.5°	978.7	924.0	893.1	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5
105°	1275.9	1240.0	1209.7	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4
107.5°	1428.1	1415.9	1405.7	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7
110°	1472.0	1479.6	1477.7	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1460.7	1484.2	1491.3	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0
115°	1400.0	1441.7	1460.7	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7
117.5°	1300.2	1347.9	1375.2	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0
120°	1230.4	1283.5	1306.3	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4
122.5°	1166.9	1214.6	1239.6	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4
125°	1083.7	1125.4	1149.0	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1
127.5°	1017.6	1053.1	1074.6	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5
130°	976.6	1010.7	1030.6	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0
132.5°	939.5	973.5	991.2	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1
135°	884.8	913.1	930.2	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5
137.5°	826.2	855.0	869.4	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2
140°	789.0	815.6	830.7	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6
142.5°	752.7	776.2	789.8	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7
145°	702.9	722.8	730.3	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1
147.5°	664.2	677.7	684.9	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5
150°	642.2	652.6	658.4	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3
152.5°	622.6	632.2	635.6	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0
155°	596.8	604.4	606.3	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5
157.5°	574.2	579.9	581.4	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3
160°	559.9	565.5	565.5	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7
162.5°	545.4	550.3	550.3	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6
165°	526.7	530.4	529.5	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8
167.5°	508.8	511.5	510.5	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6
170°	498.2	500.2	499.2	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8
172.5°	489.2	491.1	489.3	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7
175°	477.4	478.3	477.4	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6
177.5°	470.2	471.0	469.4	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-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°	13.9	14.0	13.0	12.9	11.9	11.8	10.9	11.0	10.9	10.5	11.0
90°	22.7	23.6	20.9	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9
92.5°	109.9	145.7	160.3	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7
95°	455.6	561.7	500.2	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2
97.5°	931.3	870.5	637.3	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0
100°	1083.7	897.1	606.3	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1
102.5°	1091.2	847.8	560.8	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0
105°	1033.5	761.6	504.9	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9
107.5°	932.3	685.4	469.3	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3
110°	868.6	642.2	455.6	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	813.3	613.4	448.1	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2
115°	746.4	582.5	445.2	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2
117.5°	706.0	564.4	446.9	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3
120°	684.9	556.0	450.0	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9
122.5°	667.4	550.7	455.3	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3
125°	645.1	543.7	463.2	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9
127.5°	625.4	540.3	472.3	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7
130°	614.7	538.0	478.3	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5
132.5°	605.0	537.3	482.9	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1
135°	592.1	536.1	489.8	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4
137.5°	580.8	534.0	494.3	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9
140°	574.1	533.3	497.3	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2
142.5°	567.9	531.8	499.6	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3
145°	559.9	529.5	501.1	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9
147.5°	551.9	525.9	501.1	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7
150°	546.6	522.9	501.1	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6
152.5°	540.5	519.1	498.8	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4
155°	531.4	512.5	496.4	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2
157.5°	521.1	506.6	493.2	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9
160°	514.4	502.1	491.6	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0
162.5°	507.5	497.5	488.6	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8
165°	498.2	490.6	484.0	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1
167.5°	489.3	483.9	479.5	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8
170°	484.0	479.3	476.5	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4
172.5°	478.7	475.5	474.2	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4
175°	472.7	470.8	470.8	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0
177.5°	468.7	468.0	468.7	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332038-930

CATALOG NUMBER: S123DIP-S1000D1195U930-4F0-1E-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°	12.3	12.6	14.6	15.8	18.0	19.9	20.1	19.7	19.8	19.2	18.9
90°	3.8	5.7	8.6	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6
92.5°	17.4	25.4	32.8	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7
95°	35.1	45.5	61.6	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0
97.5°	55.8	64.0	78.0	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0
100°	71.0	77.7	90.9	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8
102.5°	87.7	93.6	106.1	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5
105°	112.8	118.4	129.8	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4
107.5°	138.1	143.6	154.7	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7
110°	156.3	161.0	171.5	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	177.7	188.1	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0
115°	198.0	203.7	213.1	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7
117.5°	222.6	227.3	236.0	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0
120°	237.7	242.5	252.0	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4
122.5°	252.2	256.9	267.1	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4
125°	271.9	277.5	288.0	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1
127.5°	288.5	295.5	306.1	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5
130°	298.4	306.9	318.3	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0
132.5°	306.7	316.0	329.6	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1
135°	320.2	330.6	344.8	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5
137.5°	332.9	343.1	358.2	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2
140°	341.9	351.4	366.6	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6
142.5°	350.3	360.5	374.1	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7
145°	363.7	372.3	386.5	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1
147.5°	377.4	385.7	398.0	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5
150°	386.5	394.0	406.3	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3
152.5°	395.6	403.2	413.9	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0
155°	410.2	415.9	425.3	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5
157.5°	422.7	427.2	435.5	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3
160°	431.0	434.8	442.4	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7
162.5°	437.8	440.8	446.9	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6
165°	447.1	449.0	453.7	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8
167.5°	454.7	455.6	459.3	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6
170°	458.4	459.4	462.3	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8
172.5°	462.3	462.4	464.6	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7
175°	466.0	465.1	467.0	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6
177.5°	468.0	467.2	468.0	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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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°	18.7	18.4	18.3	18.6	18.3	18.1	18.8
90°	24.6	25.6	27.5	26.5	27.5	28.5	27.5
92.5°	63.3	55.8	51.0	49.2	46.4	47.4	45.7
95°	231.1	180.9	146.8	128.8	120.3	113.7	109.9
97.5°	680.9	558.7	445.4	375.5	332.9	307.3	299.1
100°	1040.1	929.3	794.8	699.0	629.9	593.0	593.9
102.5°	1203.0	1138.4	1053.1	978.7	924.0	893.1	871.3
105°	1326.2	1344.2	1319.6	1275.9	1240.0	1209.7	1204.9
107.5°	1310.6	1393.6	1427.3	1428.1	1415.9	1405.7	1397.0
110°	1259.9	1379.2	1445.5	1472.0	1479.6	1477.7	1475.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1193.2	1326.9	1412.2	1460.7	1484.2	1491.3	1491.8
115°	1086.5	1225.7	1329.0	1400.0	1441.7	1460.7	1465.4
117.5°	996.3	1121.4	1226.1	1300.2	1347.9	1375.2	1381.7
120°	946.3	1060.0	1155.7	1230.4	1283.5	1306.3	1312.0
122.5°	906.1	1011.5	1100.3	1166.9	1214.6	1239.6	1246.8
125°	856.3	947.2	1023.0	1083.7	1125.4	1149.0	1155.7
127.5°	812.5	894.5	963.5	1017.6	1053.1	1074.6	1080.6
130°	785.3	862.0	926.4	976.6	1010.7	1030.6	1038.2
132.5°	759.5	831.0	892.3	939.5	973.5	991.2	996.5
135°	722.8	784.3	838.3	884.8	913.1	930.2	936.9
137.5°	687.3	740.4	787.2	826.2	855.0	869.4	873.8
140°	666.8	712.3	753.1	789.0	815.6	830.7	829.8
142.5°	647.2	686.6	722.0	752.7	776.2	789.8	788.9
145°	621.4	651.8	679.1	702.9	722.8	730.3	732.2
147.5°	602.3	626.7	646.2	664.2	677.7	684.9	685.6
150°	590.1	610.0	628.0	642.2	652.6	658.4	658.4
152.5°	578.8	596.4	611.4	622.6	632.2	635.6	635.6
155°	562.6	576.9	588.2	596.8	604.4	606.3	607.2
157.5°	547.0	557.9	566.8	574.2	579.9	581.4	581.2
160°	537.1	546.6	553.2	559.9	565.5	565.5	564.6
162.5°	526.5	535.2	541.0	545.4	550.3	550.3	549.4
165°	511.5	518.1	522.9	526.7	530.4	529.5	529.5
167.5°	499.9	503.8	507.2	508.8	511.5	510.5	510.5
170°	491.6	495.4	497.3	498.2	500.2	499.2	499.2
172.5°	484.8	487.9	488.9	489.2	491.1	489.3	488.6
175°	475.5	477.4	477.4	477.4	478.3	477.4	476.5
177.5°	470.2	471.0	471.0	470.2	471.0	469.4	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0

(END OF REPORT)