

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: P331928

Luminaire Tested: **S123DIP-S560D805U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331928  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S560D805U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5597.9 lumens  
Efficiency: N/A  
Efficacy: 145.8 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

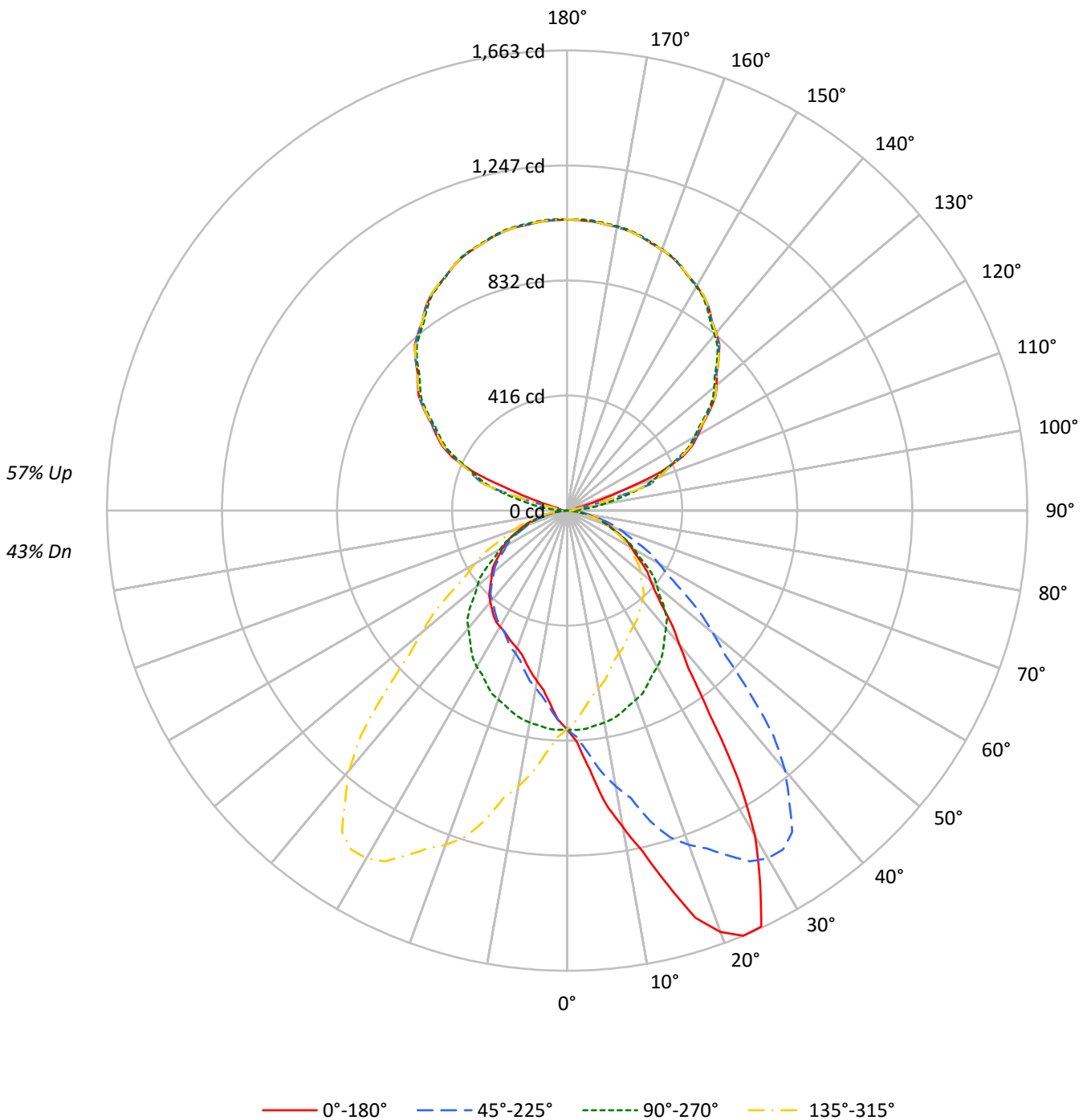
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43					43			
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42	36					36			
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31					31			
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26					26			
4	74	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23					23			
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20					20			
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17					17			
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16					16			
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	18	16	14					14			
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15	13					13			
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13	11					11			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	1.4
10°-20°	249.7	4.5
20°-30°	419.1	7.5
30°-40°	474.5	8.5
40°-50°	425.5	7.6
50°-60°	343.4	6.1
60°-70°	239.3	4.3
70°-80°	125.8	2.2
80°-90°	33.7	0.6
90°-100°	38.3	0.7
100°-110°	182.3	3.3
110°-120°	438.0	7.8
120°-130°	557.7	10.0
130°-140°	595.9	10.6
140°-150°	557.2	10.0
150°-160°	449.5	8.0
160°-170°	290.1	5.2
170°-180°	100.0	1.8
0°-30°	746.6	13.3
0°-40°	1221.1	21.8
0°-60°	1990.1	35.6
0°-90°	2388.8	42.7
90°-120°	658.6	11.8
90°-150°	2369.4	42.3
90°-180°	3209.0	57.3
0°-180°	5597.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	24	1	24	1	24	12
95°	30	48	30	48	30	25
105°	34	233	34	233	34	79
115°	460	437	460	437	460	425
125°	629	616	629	616	629	561
135°	775	767	775	767	775	597
145°	894	885	894	885	894	558
155°	973	975	973	975	973	449
165°	1026	1028	1026	1028	1026	290
175°	1048	1052	1048	1052	1048	100
180°	1052	1052	1052	1052	1052	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	13.9	13.2	13.4	13.7	13.3	13.5	13.7	13.8	14.0	14.2	14.0
90°	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2	19.5	18.8	16.5
92.5°	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2	21.1	20.0	18.3
95°	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7	25.5	24.2	22.3
97.5°	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0	26.6	25.2	37.7
100°	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6	27.2	25.8	52.9
102.5°	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8	47.1	51.4	81.0
105°	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7	140.5	171.2	186.8
107.5°	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7	291.3	313.8	311.3
110°	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1	346.9	352.6	350.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2	392.1	392.0	390.1
115°	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2	450.5	448.8	447.2
117.5°	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6	505.2	503.8	503.0
120°	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2	540.8	539.4	538.9
122.5°	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0	576.1	575.1	574.4
125°	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1	625.8	625.4	624.7
127.5°	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3	674.8	674.2	673.4
130°	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0	704.3	703.6	702.9
132.5°	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1	732.5	731.8	731.2
135°	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8	775.3	774.8	774.1
137.5°	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8	813.0	812.1	811.7
140°	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9	837.2	836.5	836.0
142.5°	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8	860.2	859.7	859.1
145°	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7	892.4	892.0	891.7
147.5°	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3	921.0	920.6	920.3
150°	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8	938.5	938.2	937.8
152.5°	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4	953.8	953.2	953.0
155°	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9	975.0	974.1	973.9
157.5°	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5	993.5	992.4	992.6
160°	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1	1004.1	1003.0	1003.2
162.5°	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8	1013.6	1012.4	1012.6
165°	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7	1026.3	1024.9	1025.1
167.5°	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9	1034.9
170°	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6	1040.6
172.5°	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1	1045.7	1044.3	1044.2
175°	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6	1050.4	1049.2	1049.0
177.5°	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3	1052.2	1051.0	1050.9
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	14.2	14.0	12.7	11.0	10.1	8.8	8.5	7.5	7.2	7.6	7.6
90°	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8	2.5	4.3	6.0
92.5°	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5	14.1	13.6	13.1
95°	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7	40.6	33.4	26.3
97.5°	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8	92.7	89.5	86.3
100°	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1	135.6	139.1	142.5
102.5°	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4	175.9	178.4	180.9
105°	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0	234.9	236.8	238.7
107.5°	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8	297.4	298.9	300.4
110°	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7	339.1	340.5	341.9





TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8	379.0	380.3	381.5
115°	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0	438.1	439.1	440.2
117.5°	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4	495.7	497.0	498.3
120°	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1	531.6	533.2	534.7
122.5°	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3	567.6	568.9	570.2
125°	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1	617.4	618.8	620.2
127.5°	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2	665.6	667.0	668.4
130°	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2	695.6	697.0	698.4
132.5°	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0	724.4	725.8	727.2
135°	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9	768.0	769.0	770.1
137.5°	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5	805.8	807.1	808.4
140°	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5	830.5	831.6	832.6
142.5°	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6	853.7	854.7	855.8
145°	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0	886.2	887.4	888.6
147.5°	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5	916.3	917.1	917.9
150°	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2	934.8	935.3	935.8
152.5°	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1	951.4	951.6	951.9
155°	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9	974.6	974.2	973.9
157.5°	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3	993.3	993.3	993.2
160°	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.4	1004.3	1004.1
162.5°	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2	1014.8	1014.3	1013.9
165°	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1	1027.5	1027.0	1026.5
167.5°	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1	1037.4	1036.7	1036.0
170°	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7	1043.0	1042.3	1041.6
172.5°	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4	1046.6	1045.8	1044.9
175°	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3	1051.4	1050.6	1049.7
177.5°	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5	1052.9	1052.2	1051.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331928

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	7.7	8.4	8.5	9.3	9.4	10.2	10.3	9.9	10.0	11.0	9.9
90°	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2	20.8	21.5	22.1
92.5°	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2	23.3	24.5	25.1
95°	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7	27.9	29.1	29.7
97.5°	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0	29.3	30.7	31.5
100°	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6	30.0	31.4	32.1
102.5°	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8	38.5	34.2	32.2
105°	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7	79.0	48.2	33.0
107.5°	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7	246.2	223.6	200.7
110°	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1	335.4	329.7	314.4



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2	392.3	392.4	389.8
115°	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2	454.0	455.7	456.9
117.5°	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6	508.0	509.3	510.1
120°	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2	543.6	545.0	545.7
122.5°	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0	578.0	579.0	579.5
125°	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1	626.5	626.8	627.2
127.5°	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3	675.9	676.4	676.5
130°	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0	705.7	706.4	706.6
132.5°	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1	733.8	734.5	734.6
135°	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8	776.3	776.8	776.8
137.5°	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8	814.6	815.5	815.7
140°	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9	838.6	839.3	839.5
142.5°	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8	861.3	861.9	861.9
145°	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7	893.1	893.4	893.6
147.5°	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3	921.7	922.0	921.8
150°	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8	939.2	939.5	939.5
152.5°	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4	955.0	955.7	955.6
155°	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9	976.7	977.6	977.5
157.5°	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5	995.5	996.6	996.4
160°	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1	1006.2	1007.2	1007.1
162.5°	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8	1016.0	1017.1	1017.2
165°	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7	1029.1	1030.5	1030.6
167.5°	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5
170°	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1
172.5°	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1	1048.5	1049.9	1049.8
175°	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6	1052.8	1054.0	1053.9
177.5°	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3	1054.4	1055.5	1055.4
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	10.0	10.1	9.8	9.6	9.8	10.1	10.0	9.9	11.0	10.0	9.9
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2
92.5°	25.3	25.5	25.7	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2
95°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7
97.5°	31.7	31.9	32.0	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0
100°	32.3	32.5	32.7	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6
102.5°	32.5	32.8	33.1	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8
105°	33.4	33.7	34.1	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7
107.5°	177.6	154.4	131.2	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7
110°	289.5	264.7	239.8	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.6	379.3	374.1	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2
115°	457.6	458.3	459.0	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2
117.5°	510.3	510.4	510.5	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6
120°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2
122.5°	579.7	579.8	580.0	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0
125°	627.5	627.9	628.2	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1
127.5°	676.2	675.9	675.5	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3
130°	706.2	705.9	705.5	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0
132.5°	734.2	733.7	733.2	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1
135°	776.3	775.8	775.3	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8
137.5°	815.4	815.0	814.7	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8
140°	839.1	838.8	838.4	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9
142.5°	861.4	860.9	860.5	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8
145°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7
147.5°	921.0	920.2	919.4	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3
150°	938.9	938.4	937.9	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8
152.5°	954.8	954.0	953.2	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4
155°	976.5	975.4	974.4	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9
157.5°	995.1	993.7	992.4	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5
160°	1005.9	1004.7	1003.5	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1
162.5°	1016.1	1015.0	1014.0	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8
165°	1029.4	1028.1	1026.9	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7
167.5°	1039.1	1037.7	1036.3	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7
170°	1044.7	1043.3	1042.0	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3
172.5°	1048.3	1046.8	1045.2	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1
175°	1052.6	1051.2	1049.8	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6
177.5°	1054.0	1052.6	1051.2	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	10.3	10.2	9.4	9.3	8.5	8.4	7.7	7.6	7.6	7.2	7.5
90°	19.5	18.8	16.5	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8
92.5°	21.1	20.0	18.3	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5
95°	25.5	24.2	22.3	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7
97.5°	26.6	25.2	37.7	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8
100°	27.2	25.8	52.9	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1
102.5°	47.1	51.4	81.0	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4
105°	140.5	171.2	186.8	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0
107.5°	291.3	313.8	311.3	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8
110°	346.9	352.6	350.7	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	392.1	392.0	390.1	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8
115°	450.5	448.8	447.2	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0
117.5°	505.2	503.8	503.0	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4
120°	540.8	539.4	538.9	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1
122.5°	576.1	575.1	574.4	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3
125°	625.8	625.4	624.7	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1
127.5°	674.8	674.2	673.4	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2
130°	704.3	703.6	702.9	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2
132.5°	732.5	731.8	731.2	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0
135°	775.3	774.8	774.1	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9
137.5°	813.0	812.1	811.7	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5
140°	837.2	836.5	836.0	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5
142.5°	860.2	859.7	859.1	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6
145°	892.4	892.0	891.7	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0
147.5°	921.0	920.6	920.3	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5
150°	938.5	938.2	937.8	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2
152.5°	953.8	953.2	953.0	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1
155°	975.0	974.1	973.9	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9
157.5°	993.5	992.4	992.6	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3
160°	1004.1	1003.0	1003.2	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
162.5°	1013.6	1012.4	1012.6	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2
165°	1026.3	1024.9	1025.1	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1
167.5°	1036.3	1034.9	1034.9	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1
170°	1042.0	1040.6	1040.6	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7
172.5°	1045.7	1044.3	1044.2	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4
175°	1050.4	1049.2	1049.0	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3
177.5°	1052.2	1051.0	1050.9	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P331928

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.5	8.8	10.1	11.0	12.7	14.0	14.2	14.0	14.2	14.0	13.8
90°	2.5	4.3	6.0	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2
92.5°	14.1	13.6	13.1	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2
95°	40.6	33.4	26.3	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7
97.5°	92.7	89.5	86.3	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0
100°	135.6	139.1	142.5	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6
102.5°	175.9	178.4	180.9	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8
105°	234.9	236.8	238.7	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7
107.5°	297.4	298.9	300.4	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7
110°	339.1	340.5	341.9	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	379.0	380.3	381.5	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2
115°	438.1	439.1	440.2	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2
117.5°	495.7	497.0	498.3	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6
120°	531.6	533.2	534.7	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2
122.5°	567.6	568.9	570.2	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0
125°	617.4	618.8	620.2	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1
127.5°	665.6	667.0	668.4	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3
130°	695.6	697.0	698.4	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0
132.5°	724.4	725.8	727.2	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1
135°	768.0	769.0	770.1	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8
137.5°	805.8	807.1	808.4	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8
140°	830.5	831.6	832.6	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9
142.5°	853.7	854.7	855.8	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8
145°	886.2	887.4	888.6	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7
147.5°	916.3	917.1	917.9	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3
150°	934.8	935.3	935.8	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8
152.5°	951.4	951.6	951.9	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4
155°	974.6	974.2	973.9	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9
157.5°	993.3	993.3	993.2	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5
160°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1
162.5°	1014.8	1014.3	1013.9	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8
165°	1027.5	1027.0	1026.5	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7
167.5°	1037.4	1036.7	1036.0	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7
170°	1043.0	1042.3	1041.6	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3
172.5°	1046.6	1045.8	1044.9	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1
175°	1051.4	1050.6	1049.7	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6
177.5°	1052.9	1052.2	1051.5	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	13.7	13.5	13.3	13.7	13.4	13.2	13.9
90°	20.8	21.5	22.1	22.4	22.8	23.1	23.5
92.5°	23.3	24.5	25.1	25.3	25.5	25.7	26.0
95°	27.9	29.1	29.7	29.7	29.7	29.7	29.7
97.5°	29.3	30.7	31.5	31.7	31.9	32.0	32.2
100°	30.0	31.4	32.1	32.3	32.5	32.7	32.8
102.5°	38.5	34.2	32.2	32.5	32.8	33.1	33.5
105°	79.0	48.2	33.0	33.4	33.7	34.1	34.4
107.5°	246.2	223.6	200.7	177.6	154.4	131.2	108.0
110°	335.4	329.7	314.4	289.5	264.7	239.8	215.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	392.3	392.4	389.8	384.6	379.3	374.1	368.9
115°	454.0	455.7	456.9	457.6	458.3	459.0	459.7
117.5°	508.0	509.3	510.1	510.3	510.4	510.5	510.7
120°	543.6	545.0	545.7	545.7	545.7	545.7	545.7
122.5°	578.0	579.0	579.5	579.7	579.8	580.0	580.1
125°	626.5	626.8	627.2	627.5	627.9	628.2	628.6
127.5°	675.9	676.4	676.5	676.2	675.9	675.5	675.2
130°	705.7	706.4	706.6	706.2	705.9	705.5	705.2
132.5°	733.8	734.5	734.6	734.2	733.7	733.2	732.7
135°	776.3	776.8	776.8	776.3	775.8	775.3	774.8
137.5°	814.6	815.5	815.7	815.4	815.0	814.7	814.3
140°	838.6	839.3	839.5	839.1	838.8	838.4	838.1
142.5°	861.3	861.9	861.9	861.4	860.9	860.5	860.0
145°	893.1	893.4	893.6	893.6	893.6	893.6	893.6
147.5°	921.7	922.0	921.8	921.0	920.2	919.4	918.6
150°	939.2	939.5	939.5	938.9	938.4	937.9	937.4
152.5°	955.0	955.7	955.6	954.8	954.0	953.2	952.4
155°	976.7	977.6	977.5	976.5	975.4	974.4	973.3
157.5°	995.5	996.6	996.4	995.1	993.7	992.4	991.0
160°	1006.2	1007.2	1007.1	1005.9	1004.7	1003.5	1002.3
162.5°	1016.0	1017.1	1017.2	1016.1	1015.0	1014.0	1012.9
165°	1029.1	1030.5	1030.6	1029.4	1028.1	1026.9	1025.7
167.5°	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9
170°	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6
172.5°	1048.5	1049.9	1049.8	1048.3	1046.8	1045.2	1043.7
175°	1052.8	1054.0	1053.9	1052.6	1051.2	1049.8	1048.4
177.5°	1054.4	1055.5	1055.4	1054.0	1052.6	1051.2	1049.8
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3

(END OF REPORT)