

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: P331919

Luminaire Tested: **S123DIP-S560D585U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331919
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-S560D585U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4729.2 lumens
Efficiency: N/A
Efficacy: 144.2 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

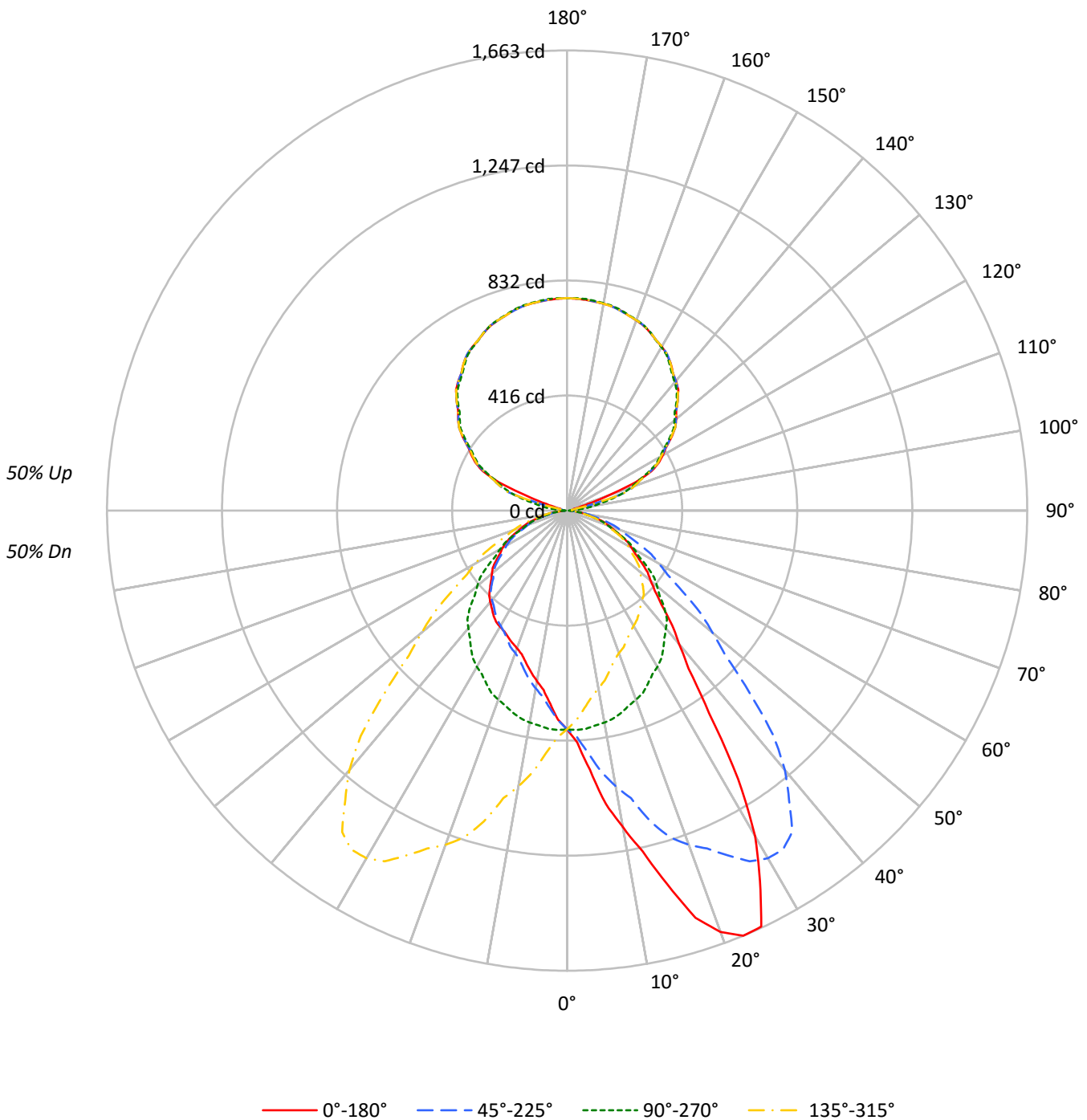
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	50				
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48	43				
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37				
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31				
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27				
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	24				
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21				
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21	18				
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

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	1.6
10°-20°	249.7	5.3
20°-30°	419.1	8.9
30°-40°	474.5	10.0
40°-50°	425.5	9.0
50°-60°	343.4	7.3
60°-70°	239.3	5.1
70°-80°	125.8	2.7
80°-90°	32.9	0.7
90°-100°	27.9	0.6
100°-110°	133.0	2.8
110°-120°	319.5	6.8
120°-130°	406.9	8.6
130°-140°	434.7	9.2
140°-150°	406.5	8.6
150°-160°	327.9	6.9
160°-170°	211.6	4.5
170°-180°	72.9	1.5
0°-30°	746.6	15.8
0°-40°	1221.1	25.8
0°-60°	1990.1	42.1
0°-90°	2388.1	50.5
90°-120°	480.5	10.2
90°-150°	1728.6	36.6
90°-180°	2341.0	49.5
0°-180°	4729.2	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	30
90°	17	1	17	1	17	9
95°	22	35	22	35	22	18
105°	25	170	25	170	25	57
115°	335	319	335	319	335	310
125°	459	449	459	449	459	410
135°	565	560	565	560	565	436
145°	652	646	652	646	652	407
155°	710	711	710	711	710	327
165°	748	750	748	750	748	211
175°	765	768	765	768	765	73
180°	768	768	768	768	768	



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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°	12.6	12.0	12.2	12.5	12.1	12.3	12.5	12.7	13.0	13.2	13.1
90°	17.1	16.9	16.6	16.4	16.1	15.7	15.2	14.7	14.2	13.7	12.0
92.5°	18.9	18.8	18.6	18.5	18.3	17.8	17.0	16.2	15.4	14.6	13.4
95°	21.7	21.7	21.7	21.7	21.7	21.2	20.3	19.5	18.6	17.7	16.3
97.5°	23.5	23.4	23.2	23.1	23.0	22.4	21.4	20.4	19.4	18.4	27.5
100°	24.0	23.8	23.7	23.6	23.4	22.9	21.9	20.8	19.8	18.8	38.6
102.5°	24.4	24.2	24.0	23.7	23.5	25.0	28.1	31.2	34.4	37.5	59.1
105°	25.1	24.8	24.6	24.3	24.1	35.2	57.6	80.0	102.5	124.9	136.3
107.5°	78.8	95.7	112.6	129.5	146.5	163.1	179.6	196.0	212.5	228.9	227.1
110°	156.8	175.0	193.1	211.2	229.3	240.5	244.7	248.9	253.0	257.2	255.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	269.1	272.9	276.7	280.6	284.4	286.3	286.2	286.1	286.1	286.0	284.6
115°	335.4	334.9	334.4	333.8	333.3	332.5	331.2	329.9	328.7	327.4	326.2
117.5°	372.6	372.5	372.4	372.3	372.2	371.6	370.6	369.6	368.6	367.5	367.0
120°	398.1	398.1	398.1	398.1	398.1	397.6	396.6	395.6	394.6	393.5	393.2
122.5°	423.2	423.1	423.0	422.9	422.8	422.4	421.7	421.0	420.3	419.6	419.1
125°	458.6	458.3	458.1	457.8	457.6	457.3	457.0	456.8	456.5	456.3	455.8
127.5°	492.6	492.8	493.1	493.3	493.6	493.5	493.1	492.7	492.3	491.9	491.3
130°	514.5	514.7	515.0	515.2	515.5	515.3	514.8	514.3	513.8	513.3	512.8
132.5°	534.5	534.9	535.2	535.6	536.0	535.9	535.4	534.9	534.4	533.9	533.4
135°	565.2	565.6	566.0	566.4	566.7	566.7	566.4	566.0	565.6	565.2	564.7
137.5°	594.1	594.3	594.6	594.8	595.1	594.9	594.3	593.7	593.1	592.5	592.2
140°	611.4	611.7	611.9	612.2	612.4	612.3	611.8	611.3	610.8	610.3	609.9
142.5°	627.4	627.7	628.1	628.5	628.8	628.8	628.4	628.0	627.6	627.2	626.8
145°	651.9	651.9	651.9	651.9	651.9	651.8	651.5	651.3	651.0	650.8	650.5
147.5°	670.2	670.8	671.3	671.9	672.5	672.7	672.4	672.2	671.9	671.7	671.4
150°	683.9	684.2	684.6	685.0	685.4	685.4	685.2	684.9	684.7	684.4	684.2
152.5°	694.8	695.4	696.0	696.6	697.1	697.2	696.7	696.3	695.8	695.4	695.2
155°	710.1	710.9	711.6	712.4	713.1	713.2	712.6	711.9	711.3	710.7	710.5
157.5°	723.0	724.0	725.0	725.9	726.9	727.1	726.3	725.5	724.8	724.0	724.1
160°	731.2	732.1	733.0	733.9	734.7	734.8	734.0	733.3	732.5	731.8	731.9
162.5°	739.0	739.7	740.5	741.3	742.1	742.1	741.2	740.3	739.5	738.6	738.7
165°	748.3	749.2	750.1	751.0	751.9	751.8	750.8	749.8	748.8	747.7	747.9
167.5°	755.0	756.1	757.1	758.1	759.1	759.1	758.1	757.1	756.1	755.0	755.0
170°	759.1	760.2	761.2	762.2	763.2	763.2	762.2	761.2	760.2	759.1	759.1
172.5°	761.4	762.5	763.7	764.8	765.9	765.9	764.9	763.9	762.9	761.9	761.8
175°	764.8	765.9	766.9	767.9	768.9	769.0	768.1	767.2	766.3	765.4	765.3
177.5°	765.9	766.9	767.9	768.9	769.9	770.0	769.2	768.4	767.6	766.8	766.7
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



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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°	13.4	13.4	12.1	10.6	9.8	8.6	8.3	7.5	7.1	7.4	7.3
90°	10.4	8.7	7.1	5.6	4.4	3.1	1.8	0.6	1.8	3.1	4.4
92.5°	12.1	10.9	9.6	9.2	9.5	9.9	10.3	10.6	10.3	9.9	9.5
95°	14.9	13.5	12.1	14.0	19.2	24.4	29.6	34.8	29.6	24.4	19.2
97.5°	36.6	45.7	54.9	60.6	62.9	65.3	67.6	69.9	67.6	65.3	62.9
100°	58.4	78.1	97.9	106.5	104.0	101.5	98.9	96.4	98.9	101.5	104.0
102.5°	80.7	102.3	123.9	133.8	132.0	130.2	128.3	126.5	128.3	130.2	132.0
105°	147.7	159.1	170.5	175.5	174.1	172.8	171.4	170.0	171.4	172.8	174.1
107.5°	225.3	223.5	221.7	220.3	219.2	218.1	216.9	215.8	216.9	218.1	219.2
110°	254.4	253.0	251.7	250.4	249.4	248.4	247.4	246.4	247.4	248.4	249.4



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	283.2	281.8	280.4	279.2	278.3	277.4	276.5	275.6	276.5	277.4	278.3
115°	325.1	324.0	322.8	321.9	321.1	320.3	319.6	318.8	319.6	320.3	321.1
117.5°	366.4	365.8	365.2	364.4	363.5	362.6	361.6	360.7	361.6	362.6	363.5
120°	392.8	392.4	392.0	391.3	390.1	389.0	387.8	386.7	387.8	389.0	390.1
122.5°	418.6	418.1	417.6	416.9	416.0	415.0	414.1	413.2	414.1	415.0	416.0
125°	455.3	454.8	454.3	453.5	452.5	451.5	450.5	449.4	450.5	451.5	452.5
127.5°	490.7	490.0	489.4	488.6	487.6	486.6	485.6	484.6	485.6	486.6	487.6
130°	512.3	511.8	511.3	510.5	509.5	508.5	507.5	506.5	507.5	508.5	509.5
132.5°	533.0	532.6	532.2	531.5	530.5	529.5	528.5	527.5	528.5	529.5	530.5
135°	564.2	563.7	563.2	562.6	561.8	561.0	560.3	559.5	560.3	561.0	561.8
137.5°	591.9	591.6	591.4	590.7	589.8	588.8	587.9	586.9	587.9	588.8	589.8
140°	609.5	609.1	608.8	608.2	607.4	606.7	605.9	605.1	605.9	606.7	607.4
142.5°	626.4	626.0	625.6	625.1	624.3	623.6	622.8	622.0	622.8	623.6	624.3
145°	650.3	650.0	649.8	649.2	648.3	647.4	646.5	645.6	646.5	647.4	648.3
147.5°	671.1	670.9	670.6	670.2	669.6	669.1	668.5	667.9	668.5	669.1	669.6
150°	683.9	683.7	683.4	683.1	682.7	682.3	682.0	681.6	682.0	682.3	682.7
152.5°	695.1	694.9	694.8	694.6	694.4	694.2	694.1	693.9	694.1	694.2	694.4
155°	710.4	710.3	710.2	710.2	710.5	710.7	711.0	711.2	711.0	710.7	710.5
157.5°	724.3	724.4	724.5	724.6	724.6	724.6	724.7	724.7	724.7	724.6	724.6
160°	732.0	732.1	732.3	732.4	732.5	732.7	732.8	732.9	732.8	732.7	732.5
162.5°	738.9	739.0	739.1	739.3	739.7	740.0	740.3	740.7	740.3	740.0	739.7
165°	748.0	748.1	748.2	748.5	748.9	749.3	749.6	750.0	749.6	749.3	748.9
167.5°	755.0	755.0	755.0	755.3	755.8	756.3	756.8	757.3	756.8	756.3	755.8
170°	759.1	759.1	759.1	759.4	759.9	760.4	760.9	761.4	760.9	760.4	759.9
172.5°	761.7	761.6	761.5	761.7	762.3	762.9	763.6	764.2	763.6	762.9	762.3
175°	765.2	765.0	764.9	765.2	765.8	766.4	767.1	767.7	767.1	766.4	765.8
177.5°	766.6	766.5	766.4	766.6	767.1	767.6	768.1	768.6	768.1	767.6	767.1
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

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°	7.3	7.9	7.9	8.5	8.5	9.2	9.3	8.8	8.9	9.9	8.7
90°	5.6	7.1	8.7	10.4	12.0	13.7	14.2	14.7	15.2	15.7	16.1
92.5°	9.2	9.6	10.9	12.1	13.4	14.6	15.4	16.2	17.0	17.8	18.3
95°	14.0	12.1	13.5	14.9	16.3	17.7	18.6	19.5	20.3	21.2	21.7
97.5°	60.6	54.9	45.7	36.6	27.5	18.4	19.4	20.4	21.4	22.4	23.0
100°	106.5	97.9	78.1	58.4	38.6	18.8	19.8	20.8	21.9	22.9	23.4
102.5°	133.8	123.9	102.3	80.7	59.1	37.5	34.4	31.2	28.1	25.0	23.5
105°	175.5	170.5	159.1	147.7	136.3	124.9	102.5	80.0	57.6	35.2	24.1
107.5°	220.3	221.7	223.5	225.3	227.1	228.9	212.5	196.0	179.6	163.1	146.5
110°	250.4	251.7	253.0	254.4	255.8	257.2	253.0	248.9	244.7	240.5	229.3



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	279.2	280.4	281.8	283.2	284.6	286.0	286.1	286.1	286.2	286.3	284.4
115°	321.9	322.8	324.0	325.1	326.2	327.4	328.7	329.9	331.2	332.5	333.3
117.5°	364.4	365.2	365.8	366.4	367.0	367.5	368.6	369.6	370.6	371.6	372.2
120°	391.3	392.0	392.4	392.8	393.2	393.5	394.6	395.6	396.6	397.6	398.1
122.5°	416.9	417.6	418.1	418.6	419.1	419.6	420.3	421.0	421.7	422.4	422.8
125°	453.5	454.3	454.8	455.3	455.8	456.3	456.5	456.8	457.0	457.3	457.6
127.5°	488.6	489.4	490.0	490.7	491.3	491.9	492.3	492.7	493.1	493.5	493.6
130°	510.5	511.3	511.8	512.3	512.8	513.3	513.8	514.3	514.8	515.3	515.5
132.5°	531.5	532.2	532.6	533.0	533.4	533.9	534.4	534.9	535.4	535.9	536.0
135°	562.6	563.2	563.7	564.2	564.7	565.2	565.6	566.0	566.4	566.7	566.7
137.5°	590.7	591.4	591.6	591.9	592.2	592.5	593.1	593.7	594.3	594.9	595.1
140°	608.2	608.8	609.1	609.5	609.9	610.3	610.8	611.3	611.8	612.3	612.4
142.5°	625.1	625.6	626.0	626.4	626.8	627.2	627.6	628.0	628.4	628.8	628.8
145°	649.2	649.8	650.0	650.3	650.5	650.8	651.0	651.3	651.5	651.8	651.9
147.5°	670.2	670.6	670.9	671.1	671.4	671.7	671.9	672.2	672.4	672.7	672.5
150°	683.1	683.4	683.7	683.9	684.2	684.4	684.7	684.9	685.2	685.4	685.4
152.5°	694.6	694.8	694.9	695.1	695.2	695.4	695.8	696.3	696.7	697.2	697.1
155°	710.2	710.2	710.3	710.4	710.5	710.7	711.3	711.9	712.6	713.2	713.1
157.5°	724.6	724.5	724.4	724.3	724.1	724.0	724.8	725.5	726.3	727.1	726.9
160°	732.4	732.3	732.1	732.0	731.9	731.8	732.5	733.3	734.0	734.8	734.7
162.5°	739.3	739.1	739.0	738.9	738.7	738.6	739.5	740.3	741.2	742.1	742.1
165°	748.5	748.2	748.1	748.0	747.9	747.7	748.8	749.8	750.8	751.8	751.9
167.5°	755.3	755.0	755.0	755.0	755.0	755.0	756.1	757.1	758.1	759.1	759.1
170°	759.4	759.1	759.1	759.1	759.1	759.1	760.2	761.2	762.2	763.2	763.2
172.5°	761.7	761.5	761.6	761.7	761.8	761.9	762.9	763.9	764.9	765.9	765.9
175°	765.2	764.9	765.0	765.2	765.3	765.4	766.3	767.2	768.1	769.0	768.9
177.5°	766.6	766.4	766.5	766.6	766.7	766.8	767.6	768.4	769.2	770.0	769.9
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-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°	8.8	8.8	8.6	8.3	8.6	8.8	8.8	8.7	9.9	8.9	8.8
90°	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	15.7	15.2	14.7
92.5°	18.5	18.6	18.8	18.9	18.8	18.6	18.5	18.3	17.8	17.0	16.2
95°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.2	20.3	19.5
97.5°	23.1	23.2	23.4	23.5	23.4	23.2	23.1	23.0	22.4	21.4	20.4
100°	23.6	23.7	23.8	24.0	23.8	23.7	23.6	23.4	22.9	21.9	20.8
102.5°	23.7	24.0	24.2	24.4	24.2	24.0	23.7	23.5	25.0	28.1	31.2
105°	24.3	24.6	24.8	25.1	24.8	24.6	24.3	24.1	35.2	57.6	80.0
107.5°	129.5	112.6	95.7	78.8	95.7	112.6	129.5	146.5	163.1	179.6	196.0
110°	211.2	193.1	175.0	156.8	175.0	193.1	211.2	229.3	240.5	244.7	248.9



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	280.6	276.7	272.9	269.1	272.9	276.7	280.6	284.4	286.3	286.2	286.1
115°	333.8	334.4	334.9	335.4	334.9	334.4	333.8	333.3	332.5	331.2	329.9
117.5°	372.3	372.4	372.5	372.6	372.5	372.4	372.3	372.2	371.6	370.6	369.6
120°	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	397.6	396.6	395.6
122.5°	422.9	423.0	423.1	423.2	423.1	423.0	422.9	422.8	422.4	421.7	421.0
125°	457.8	458.1	458.3	458.6	458.3	458.1	457.8	457.6	457.3	457.0	456.8
127.5°	493.3	493.1	492.8	492.6	492.8	493.1	493.3	493.6	493.5	493.1	492.7
130°	515.2	515.0	514.7	514.5	514.7	515.0	515.2	515.5	515.3	514.8	514.3
132.5°	535.6	535.2	534.9	534.5	534.9	535.2	535.6	536.0	535.9	535.4	534.9
135°	566.4	566.0	565.6	565.2	565.6	566.0	566.4	566.7	566.7	566.4	566.0
137.5°	594.8	594.6	594.3	594.1	594.3	594.6	594.8	595.1	594.9	594.3	593.7
140°	612.2	611.9	611.7	611.4	611.7	611.9	612.2	612.4	612.3	611.8	611.3
142.5°	628.5	628.1	627.7	627.4	627.7	628.1	628.5	628.8	628.8	628.4	628.0
145°	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.8	651.5	651.3
147.5°	671.9	671.3	670.8	670.2	670.8	671.3	671.9	672.5	672.7	672.4	672.2
150°	685.0	684.6	684.2	683.9	684.2	684.6	685.0	685.4	685.4	685.2	684.9
152.5°	696.6	696.0	695.4	694.8	695.4	696.0	696.6	697.1	697.2	696.7	696.3
155°	712.4	711.6	710.9	710.1	710.9	711.6	712.4	713.1	713.2	712.6	711.9
157.5°	725.9	725.0	724.0	723.0	724.0	725.0	725.9	726.9	727.1	726.3	725.5
160°	733.9	733.0	732.1	731.2	732.1	733.0	733.9	734.7	734.8	734.0	733.3
162.5°	741.3	740.5	739.7	739.0	739.7	740.5	741.3	742.1	742.1	741.2	740.3
165°	751.0	750.1	749.2	748.3	749.2	750.1	751.0	751.9	751.8	750.8	749.8
167.5°	758.1	757.1	756.1	755.0	756.1	757.1	758.1	759.1	759.1	758.1	757.1
170°	762.2	761.2	760.2	759.1	760.2	761.2	762.2	763.2	763.2	762.2	761.2
172.5°	764.8	763.7	762.5	761.4	762.5	763.7	764.8	765.9	765.9	764.9	763.9
175°	767.9	766.9	765.9	764.8	765.9	766.9	767.9	768.9	769.0	768.1	767.2
177.5°	768.9	767.9	766.9	765.9	766.9	767.9	768.9	769.9	770.0	769.2	768.4
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-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°	9.3	9.2	8.5	8.5	7.9	7.9	7.3	7.3	7.4	7.1	7.5
90°	14.2	13.7	12.0	10.4	8.7	7.1	5.6	4.4	3.1	1.8	0.6
92.5°	15.4	14.6	13.4	12.1	10.9	9.6	9.2	9.5	9.9	10.3	10.6
95°	18.6	17.7	16.3	14.9	13.5	12.1	14.0	19.2	24.4	29.6	34.8
97.5°	19.4	18.4	27.5	36.6	45.7	54.9	60.6	62.9	65.3	67.6	69.9
100°	19.8	18.8	38.6	58.4	78.1	97.9	106.5	104.0	101.5	98.9	96.4
102.5°	34.4	37.5	59.1	80.7	102.3	123.9	133.8	132.0	130.2	128.3	126.5
105°	102.5	124.9	136.3	147.7	159.1	170.5	175.5	174.1	172.8	171.4	170.0
107.5°	212.5	228.9	227.1	225.3	223.5	221.7	220.3	219.2	218.1	216.9	215.8
110°	253.0	257.2	255.8	254.4	253.0	251.7	250.4	249.4	248.4	247.4	246.4



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.1	286.0	284.6	283.2	281.8	280.4	279.2	278.3	277.4	276.5	275.6
115°	328.7	327.4	326.2	325.1	324.0	322.8	321.9	321.1	320.3	319.6	318.8
117.5°	368.6	367.5	367.0	366.4	365.8	365.2	364.4	363.5	362.6	361.6	360.7
120°	394.6	393.5	393.2	392.8	392.4	392.0	391.3	390.1	389.0	387.8	386.7
122.5°	420.3	419.6	419.1	418.6	418.1	417.6	416.9	416.0	415.0	414.1	413.2
125°	456.5	456.3	455.8	455.3	454.8	454.3	453.5	452.5	451.5	450.5	449.4
127.5°	492.3	491.9	491.3	490.7	490.0	489.4	488.6	487.6	486.6	485.6	484.6
130°	513.8	513.3	512.8	512.3	511.8	511.3	510.5	509.5	508.5	507.5	506.5
132.5°	534.4	533.9	533.4	533.0	532.6	532.2	531.5	530.5	529.5	528.5	527.5
135°	565.6	565.2	564.7	564.2	563.7	563.2	562.6	561.8	561.0	560.3	559.5
137.5°	593.1	592.5	592.2	591.9	591.6	591.4	590.7	589.8	588.8	587.9	586.9
140°	610.8	610.3	609.9	609.5	609.1	608.8	608.2	607.4	606.7	605.9	605.1
142.5°	627.6	627.2	626.8	626.4	626.0	625.6	625.1	624.3	623.6	622.8	622.0
145°	651.0	650.8	650.5	650.3	650.0	649.8	649.2	648.3	647.4	646.5	645.6
147.5°	671.9	671.7	671.4	671.1	670.9	670.6	670.2	669.6	669.1	668.5	667.9
150°	684.7	684.4	684.2	683.9	683.7	683.4	683.1	682.7	682.3	682.0	681.6
152.5°	695.8	695.4	695.2	695.1	694.9	694.8	694.6	694.4	694.2	694.1	693.9
155°	711.3	710.7	710.5	710.4	710.3	710.2	710.2	710.5	710.7	711.0	711.2
157.5°	724.8	724.0	724.1	724.3	724.4	724.5	724.6	724.6	724.6	724.7	724.7
160°	732.5	731.8	731.9	732.0	732.1	732.3	732.4	732.5	732.7	732.8	732.9
162.5°	739.5	738.6	738.7	738.9	739.0	739.1	739.3	739.7	740.0	740.3	740.7
165°	748.8	747.7	747.9	748.0	748.1	748.2	748.5	748.9	749.3	749.6	750.0
167.5°	756.1	755.0	755.0	755.0	755.0	755.0	755.3	755.8	756.3	756.8	757.3
170°	760.2	759.1	759.1	759.1	759.1	759.1	759.4	759.9	760.4	760.9	761.4
172.5°	762.9	761.9	761.8	761.7	761.6	761.5	761.7	762.3	762.9	763.6	764.2
175°	766.3	765.4	765.3	765.2	765.0	764.9	765.2	765.8	766.4	767.1	767.7
177.5°	767.6	766.8	766.7	766.6	766.5	766.4	766.6	767.1	767.6	768.1	768.6
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-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°	8.3	8.6	9.8	10.6	12.1	13.4	13.4	13.1	13.2	13.0	12.7
90°	1.8	3.1	4.4	5.6	7.1	8.7	10.4	12.0	13.7	14.2	14.7
92.5°	10.3	9.9	9.5	9.2	9.6	10.9	12.1	13.4	14.6	15.4	16.2
95°	29.6	24.4	19.2	14.0	12.1	13.5	14.9	16.3	17.7	18.6	19.5
97.5°	67.6	65.3	62.9	60.6	54.9	45.7	36.6	27.5	18.4	19.4	20.4
100°	98.9	101.5	104.0	106.5	97.9	78.1	58.4	38.6	18.8	19.8	20.8
102.5°	128.3	130.2	132.0	133.8	123.9	102.3	80.7	59.1	37.5	34.4	31.2
105°	171.4	172.8	174.1	175.5	170.5	159.1	147.7	136.3	124.9	102.5	80.0
107.5°	216.9	218.1	219.2	220.3	221.7	223.5	225.3	227.1	228.9	212.5	196.0
110°	247.4	248.4	249.4	250.4	251.7	253.0	254.4	255.8	257.2	253.0	248.9



TEST NUMBER: P331919

CATALOG NUMBER: S123DIP-S560D585U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	276.5	277.4	278.3	279.2	280.4	281.8	283.2	284.6	286.0	286.1	286.1
115°	319.6	320.3	321.1	321.9	322.8	324.0	325.1	326.2	327.4	328.7	329.9
117.5°	361.6	362.6	363.5	364.4	365.2	365.8	366.4	367.0	367.5	368.6	369.6
120°	387.8	389.0	390.1	391.3	392.0	392.4	392.8	393.2	393.5	394.6	395.6
122.5°	414.1	415.0	416.0	416.9	417.6	418.1	418.6	419.1	419.6	420.3	421.0
125°	450.5	451.5	452.5	453.5	454.3	454.8	455.3	455.8	456.3	456.5	456.8
127.5°	485.6	486.6	487.6	488.6	489.4	490.0	490.7	491.3	491.9	492.3	492.7
130°	507.5	508.5	509.5	510.5	511.3	511.8	512.3	512.8	513.3	513.8	514.3
132.5°	528.5	529.5	530.5	531.5	532.2	532.6	533.0	533.4	533.9	534.4	534.9
135°	560.3	561.0	561.8	562.6	563.2	563.7	564.2	564.7	565.2	565.6	566.0
137.5°	587.9	588.8	589.8	590.7	591.4	591.6	591.9	592.2	592.5	593.1	593.7
140°	605.9	606.7	607.4	608.2	608.8	609.1	609.5	609.9	610.3	610.8	611.3
142.5°	622.8	623.6	624.3	625.1	625.6	626.0	626.4	626.8	627.2	627.6	628.0
145°	646.5	647.4	648.3	649.2	649.8	650.0	650.3	650.5	650.8	651.0	651.3
147.5°	668.5	669.1	669.6	670.2	670.6	670.9	671.1	671.4	671.7	671.9	672.2
150°	682.0	682.3	682.7	683.1	683.4	683.7	683.9	684.2	684.4	684.7	684.9
152.5°	694.1	694.2	694.4	694.6	694.8	694.9	695.1	695.2	695.4	695.8	696.3
155°	711.0	710.7	710.5	710.2	710.2	710.3	710.4	710.5	710.7	711.3	711.9
157.5°	724.7	724.6	724.6	724.6	724.5	724.4	724.3	724.1	724.0	724.8	725.5
160°	732.8	732.7	732.5	732.4	732.3	732.1	732.0	731.9	731.8	732.5	733.3
162.5°	740.3	740.0	739.7	739.3	739.1	739.0	738.9	738.7	738.6	739.5	740.3
165°	749.6	749.3	748.9	748.5	748.2	748.1	748.0	747.9	747.7	748.8	749.8
167.5°	756.8	756.3	755.8	755.3	755.0	755.0	755.0	755.0	755.0	756.1	757.1
170°	760.9	760.4	759.9	759.4	759.1	759.1	759.1	759.1	759.1	760.2	761.2
172.5°	763.6	762.9	762.3	761.7	761.5	761.6	761.7	761.8	761.9	762.9	763.9
175°	767.1	766.4	765.8	765.2	764.9	765.0	765.2	765.3	765.4	766.3	767.2
177.5°	768.1	767.6	767.1	766.6	766.4	766.5	766.6	766.7	766.8	767.6	768.4
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7



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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°	12.5	12.3	12.1	12.5	12.2	12.0	12.6
90°	15.2	15.7	16.1	16.4	16.6	16.9	17.1
92.5°	17.0	17.8	18.3	18.5	18.6	18.8	18.9
95°	20.3	21.2	21.7	21.7	21.7	21.7	21.7
97.5°	21.4	22.4	23.0	23.1	23.2	23.4	23.5
100°	21.9	22.9	23.4	23.6	23.7	23.8	24.0
102.5°	28.1	25.0	23.5	23.7	24.0	24.2	24.4
105°	57.6	35.2	24.1	24.3	24.6	24.8	25.1
107.5°	179.6	163.1	146.5	129.5	112.6	95.7	78.8
110°	244.7	240.5	229.3	211.2	193.1	175.0	156.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	286.2	286.3	284.4	280.6	276.7	272.9	269.1
115°	331.2	332.5	333.3	333.8	334.4	334.9	335.4
117.5°	370.6	371.6	372.2	372.3	372.4	372.5	372.6
120°	396.6	397.6	398.1	398.1	398.1	398.1	398.1
122.5°	421.7	422.4	422.8	422.9	423.0	423.1	423.2
125°	457.0	457.3	457.6	457.8	458.1	458.3	458.6
127.5°	493.1	493.5	493.6	493.3	493.1	492.8	492.6
130°	514.8	515.3	515.5	515.2	515.0	514.7	514.5
132.5°	535.4	535.9	536.0	535.6	535.2	534.9	534.5
135°	566.4	566.7	566.7	566.4	566.0	565.6	565.2
137.5°	594.3	594.9	595.1	594.8	594.6	594.3	594.1
140°	611.8	612.3	612.4	612.2	611.9	611.7	611.4
142.5°	628.4	628.8	628.8	628.5	628.1	627.7	627.4
145°	651.5	651.8	651.9	651.9	651.9	651.9	651.9
147.5°	672.4	672.7	672.5	671.9	671.3	670.8	670.2
150°	685.2	685.4	685.4	685.0	684.6	684.2	683.9
152.5°	696.7	697.2	697.1	696.6	696.0	695.4	694.8
155°	712.6	713.2	713.1	712.4	711.6	710.9	710.1
157.5°	726.3	727.1	726.9	725.9	725.0	724.0	723.0
160°	734.0	734.8	734.7	733.9	733.0	732.1	731.2
162.5°	741.2	742.1	742.1	741.3	740.5	739.7	739.0
165°	750.8	751.8	751.9	751.0	750.1	749.2	748.3
167.5°	758.1	759.1	759.1	758.1	757.1	756.1	755.0
170°	762.2	763.2	763.2	762.2	761.2	760.2	759.1
172.5°	764.9	765.9	765.9	764.8	763.7	762.5	761.4
175°	768.1	769.0	768.9	767.9	766.9	765.9	764.8
177.5°	769.2	770.0	769.9	768.9	767.9	766.9	765.9
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7

(END OF REPORT)