

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: P331930

Luminaire Tested: **S123DIP-S560D805U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331930
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-S560D805U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

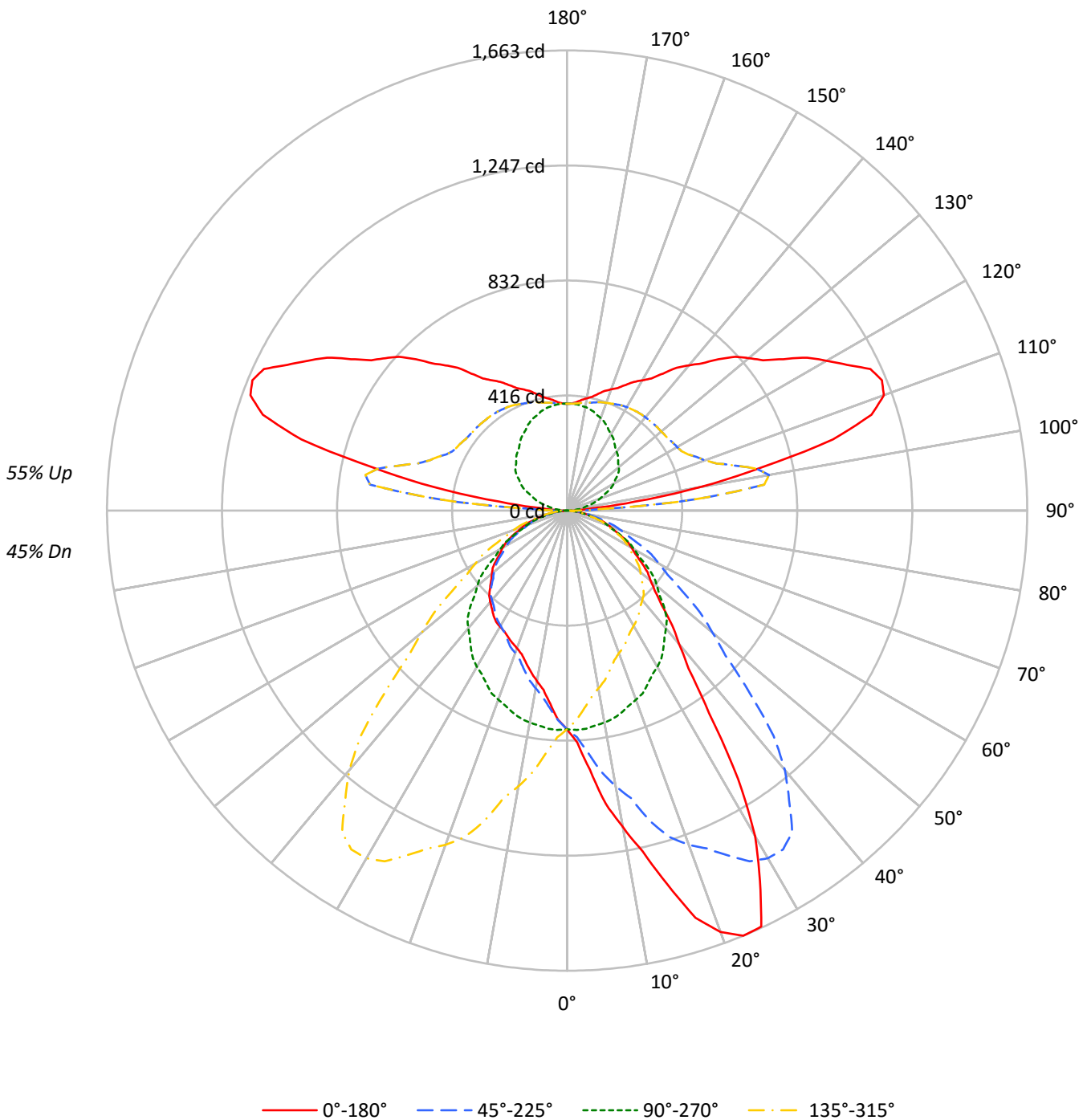
Lumens per Lamp: N/A
Luminaire Lumens: 5294.6 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

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	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	70	65	62	59	56	51	49	46	41	39	37	33				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	33	29	29	27	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	32	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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	1.5
10°-20°	249.7	4.7
20°-30°	419.1	7.9
30°-40°	474.5	9.0
40°-50°	425.5	8.0
50°-60°	343.4	6.5
60°-70°	239.3	4.5
70°-80°	125.8	2.4
80°-90°	33.8	0.6
90°-100°	214.9	4.1
100°-110°	608.6	11.5
110°-120°	598.7	11.3
120°-130°	477.5	9.0
130°-140°	376.5	7.1
140°-150°	281.0	5.3
150°-160°	195.9	3.7
160°-170°	115.1	2.2
170°-180°	37.4	0.7
0°-30°	746.6	14.1
0°-40°	1221.1	23.1
0°-60°	1990.1	37.6
0°-90°	2388.9	45.1
90°-120°	1422.2	26.9
90°-150°	2557.3	48.3
90°-180°	2906.0	54.9
0°-180°	5294.6	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°	23	2	23	2	23	13
95°	91	27	91	27	91	163
105°	994	91	994	91	994	981
115°	1210	160	1210	160	1210	1175
125°	954	223	954	223	954	864
135°	773	261	773	261	773	600
145°	604	298	604	298	604	384
155°	501	338	501	338	501	234
165°	437	370	437	370	437	125
175°	393	385	393	385	393	38
180°	386	386	386	386	386	



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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°	13.7	13.3	13.4	13.6	13.4	13.4	13.6	13.7	13.9	14.3	14.2
90°	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5	18.8	19.5	17.2
92.5°	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8	90.7	120.2	132.3
95°	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5	376.1	463.6	412.8
97.5°	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6	768.7	718.5	526.0
100°	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8	894.4	740.4	500.4
102.5°	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9	900.7	699.7	462.8
105°	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4	853.0	628.6	416.7
107.5°	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8	769.5	565.7	387.3
110°	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0	716.9	530.1	376.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8	671.3	506.3	369.8
115°	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7	616.1	480.8	367.5
117.5°	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9	582.8	465.8	368.9
120°	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5	565.3	458.9	371.4
122.5°	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4	550.9	454.6	375.7
125°	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5	532.4	448.8	382.3
127.5°	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7	516.2	446.0	389.8
130°	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8	507.4	444.1	394.8
132.5°	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1	499.3	443.4	398.6
135°	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0	488.6	442.5	404.2
137.5°	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8	479.4	440.8	408.0
140°	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5	473.8	440.2	410.5
142.5°	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9	468.8	438.9	412.3
145°	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1	462.1	437.0	413.6
147.5°	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6	455.5	434.1	413.6
150°	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1	451.1	431.6	413.6
152.5°	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2	446.1	428.4	411.7
155°	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9	438.6	423.0	409.7
157.5°	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9	430.2	418.1	407.0
160°	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7	424.5	414.4	405.8
162.5°	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2	418.9	410.6	403.3
165°	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5	411.2	405.0	399.5
167.5°	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0	403.9	399.4	395.8
170°	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4	399.5	395.6	393.3
172.5°	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4	395.1	392.5	391.4
175°	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7	390.1	388.6	388.6
177.5°	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5	386.8	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	14.3	14.1	12.8	11.2	10.3	8.9	8.6	7.7	7.4	7.7	7.8
90°	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6	3.1	4.7	7.0
92.5°	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7	14.4	21.0	27.1
95°	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6	28.9	37.5	50.8
97.5°	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3	46.1	52.9	64.4
100°	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9	58.6	64.1	75.1
102.5°	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0	72.4	77.2	87.6
105°	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7	93.0	97.7	107.1
107.5°	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6	114.0	118.5	127.7
110°	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7	129.0	132.9	141.5



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4	142.8	146.7	155.3
115°	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3	163.4	168.1	175.9
117.5°	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1	183.7	187.6	194.8
120°	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9	196.2	200.1	208.0
122.5°	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8	208.1	212.0	220.5
125°	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8	224.4	229.1	237.7
127.5°	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8	238.1	243.9	252.7
130°	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9	246.3	253.3	262.7
132.5°	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2	253.2	260.8	272.1
135°	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1	264.3	272.9	284.6
137.5°	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4	274.7	283.2	295.7
140°	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3	282.2	290.1	302.6
142.5°	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8	289.1	297.6	308.8
145°	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9	300.2	307.3	319.0
147.5°	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1	311.5	318.4	328.5
150°	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2	319.0	325.2	335.4
152.5°	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3	326.5	332.7	341.7
155°	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5	338.5	343.2	351.0
157.5°	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2	348.8	352.6	359.5
160°	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7	355.7	358.9	365.1
162.5°	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4	361.4	363.9	368.9
165°	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8	369.0	370.6	374.5
167.5°	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2	375.3	376.1	379.0
170°	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0	378.4	379.2	381.5
172.5°	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5	381.5	381.7	383.4
175°	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4	384.7	383.9	385.4
177.5°	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8	386.2	385.6	386.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

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°	7.8	8.5	8.6	9.4	9.6	10.3	10.2	9.7	9.9	11.0	10.0
90°	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5	20.3	21.1	22.7
92.5°	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8	52.2	46.1	42.1
95°	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5	190.8	149.3	121.2
97.5°	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6	562.0	461.1	367.6
100°	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8	858.4	767.0	655.9
102.5°	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9	992.9	939.6	869.2
105°	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4	1094.5	1109.4	1089.1
107.5°	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8	1081.7	1150.2	1178.0
110°	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0	1039.8	1138.3	1193.1



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8	984.8	1095.2	1165.5
115°	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7	896.7	1011.7	1096.9
117.5°	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9	822.3	925.5	1012.0
120°	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5	781.0	874.9	953.8
122.5°	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4	747.9	834.8	908.2
125°	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5	706.8	781.8	844.4
127.5°	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7	670.6	738.4	795.3
130°	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8	648.1	711.5	764.6
132.5°	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1	626.9	685.8	736.5
135°	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0	596.5	647.3	691.9
137.5°	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8	567.3	611.1	649.7
140°	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5	550.4	587.9	621.5
142.5°	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9	534.1	566.7	595.9
145°	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1	512.9	537.9	560.6
147.5°	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6	497.1	517.3	533.4
150°	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1	487.1	503.5	518.3
152.5°	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2	477.7	492.2	504.6
155°	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9	464.4	476.1	485.5
157.5°	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9	451.4	460.5	467.8
160°	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7	443.3	451.1	456.6
162.5°	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2	434.5	441.7	446.6
165°	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5	422.2	427.7	431.6
167.5°	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0	412.6	415.8	418.6
170°	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4	405.8	408.9	410.5
172.5°	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4	400.1	402.6	403.6
175°	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7	392.5	394.0	394.0
177.5°	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5	388.1	388.7	388.7
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

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°	9.9	10.0	9.9	9.4	9.9	10.0	9.9	10.0	11.0	9.9	9.7
90°	21.9	22.7	23.5	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5
92.5°	40.7	38.3	39.1	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8
95°	106.3	99.3	93.8	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5
97.5°	309.9	274.7	253.6	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6
100°	577.0	519.9	489.4	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8
102.5°	807.8	762.6	737.1	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9
105°	1053.1	1023.4	998.4	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4
107.5°	1178.7	1168.7	1160.2	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8
110°	1214.9	1221.2	1219.6	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1205.6	1225.0	1230.9	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8
115°	1155.5	1189.9	1205.6	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7
117.5°	1073.1	1112.5	1135.0	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9
120°	1015.6	1059.4	1078.1	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5
122.5°	963.0	1002.4	1023.1	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4
125°	894.4	928.8	948.3	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5
127.5°	839.8	869.2	886.9	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7
130°	806.1	834.2	850.6	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8
132.5°	775.4	803.6	818.1	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1
135°	730.2	753.7	767.7	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0
137.5°	681.9	705.7	717.6	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8
140°	651.3	673.1	685.7	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5
142.5°	621.2	640.6	651.9	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9
145°	580.1	596.5	602.8	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1
147.5°	548.2	559.3	565.3	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6
150°	530.1	538.7	543.4	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1
152.5°	513.8	521.8	524.6	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2
155°	492.5	498.8	500.4	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9
157.5°	473.9	478.6	479.9	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9
160°	462.1	466.7	466.7	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7
162.5°	450.2	454.2	454.2	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2
165°	434.7	437.8	437.0	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5
167.5°	420.0	422.2	421.4	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0
170°	411.2	412.8	412.0	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4
172.5°	403.7	405.3	403.9	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4
175°	394.0	394.8	394.0	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7
177.5°	388.1	388.7	387.5	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

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°	10.2	10.3	9.6	9.4	8.6	8.5	7.8	7.8	7.7	7.4	7.7
90°	18.8	19.5	17.2	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6
92.5°	90.7	120.2	132.3	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7
95°	376.1	463.6	412.8	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6
97.5°	768.7	718.5	526.0	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3
100°	894.4	740.4	500.4	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9
102.5°	900.7	699.7	462.8	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0
105°	853.0	628.6	416.7	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7
107.5°	769.5	565.7	387.3	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6
110°	716.9	530.1	376.1	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	671.3	506.3	369.8	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4
115°	616.1	480.8	367.5	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3
117.5°	582.8	465.8	368.9	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1
120°	565.3	458.9	371.4	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9
122.5°	550.9	454.6	375.7	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8
125°	532.4	448.8	382.3	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8
127.5°	516.2	446.0	389.8	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8
130°	507.4	444.1	394.8	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9
132.5°	499.3	443.4	398.6	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2
135°	488.6	442.5	404.2	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1
137.5°	479.4	440.8	408.0	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4
140°	473.8	440.2	410.5	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3
142.5°	468.8	438.9	412.3	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8
145°	462.1	437.0	413.6	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9
147.5°	455.5	434.1	413.6	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1
150°	451.1	431.6	413.6	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2
152.5°	446.1	428.4	411.7	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3
155°	438.6	423.0	409.7	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5
157.5°	430.2	418.1	407.0	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2
160°	424.5	414.4	405.8	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7
162.5°	418.9	410.6	403.3	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4
165°	411.2	405.0	399.5	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8
167.5°	403.9	399.4	395.8	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2
170°	399.5	395.6	393.3	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0
172.5°	395.1	392.5	391.4	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5
175°	390.1	388.6	388.6	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4
177.5°	386.8	386.2	386.8	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

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°	8.6	8.9	10.3	11.2	12.8	14.1	14.3	14.2	14.3	13.9	13.7
90°	3.1	4.7	7.0	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5
92.5°	14.4	21.0	27.1	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8
95°	28.9	37.5	50.8	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5
97.5°	46.1	52.9	64.4	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6
100°	58.6	64.1	75.1	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8
102.5°	72.4	77.2	87.6	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9
105°	93.0	97.7	107.1	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4
107.5°	114.0	118.5	127.7	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8
110°	129.0	132.9	141.5	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0



TEST NUMBER: P331930

CATALOG NUMBER: S123DIP-S560D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	146.7	155.3	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8
115°	163.4	168.1	175.9	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7
117.5°	183.7	187.6	194.8	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9
120°	196.2	200.1	208.0	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5
122.5°	208.1	212.0	220.5	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4
125°	224.4	229.1	237.7	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5
127.5°	238.1	243.9	252.7	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7
130°	246.3	253.3	262.7	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8
132.5°	253.2	260.8	272.1	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1
135°	264.3	272.9	284.6	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0
137.5°	274.7	283.2	295.7	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8
140°	282.2	290.1	302.6	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5
142.5°	289.1	297.6	308.8	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9
145°	300.2	307.3	319.0	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1
147.5°	311.5	318.4	328.5	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6
150°	319.0	325.2	335.4	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1
152.5°	326.5	332.7	341.7	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2
155°	338.5	343.2	351.0	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9
157.5°	348.8	352.6	359.5	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9
160°	355.7	358.9	365.1	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7
162.5°	361.4	363.9	368.9	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2
165°	369.0	370.6	374.5	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5
167.5°	375.3	376.1	379.0	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0
170°	378.4	379.2	381.5	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4
172.5°	381.5	381.7	383.4	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4
175°	384.7	383.9	385.4	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7
177.5°	386.2	385.6	386.2	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



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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°	13.6	13.4	13.4	13.6	13.4	13.3	13.7
90°	20.3	21.1	22.7	21.9	22.7	23.5	22.7
92.5°	52.2	46.1	42.1	40.7	38.3	39.1	37.7
95°	190.8	149.3	121.2	106.3	99.3	93.8	90.7
97.5°	562.0	461.1	367.6	309.9	274.7	253.6	246.9
100°	858.4	767.0	655.9	577.0	519.9	489.4	490.2
102.5°	992.9	939.6	869.2	807.8	762.6	737.1	719.1
105°	1094.5	1109.4	1089.1	1053.1	1023.4	998.4	994.5
107.5°	1081.7	1150.2	1178.0	1178.7	1168.7	1160.2	1153.0
110°	1039.8	1138.3	1193.1	1214.9	1221.2	1219.6	1218.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.8	1095.2	1165.5	1205.6	1225.0	1230.9	1231.2
115°	896.7	1011.7	1096.9	1155.5	1189.9	1205.6	1209.5
117.5°	822.3	925.5	1012.0	1073.1	1112.5	1135.0	1140.4
120°	781.0	874.9	953.8	1015.6	1059.4	1078.1	1082.8
122.5°	747.9	834.8	908.2	963.0	1002.4	1023.1	1029.0
125°	706.8	781.8	844.4	894.4	928.8	948.3	953.8
127.5°	670.6	738.4	795.3	839.8	869.2	886.9	891.9
130°	648.1	711.5	764.6	806.1	834.2	850.6	856.9
132.5°	626.9	685.8	736.5	775.4	803.6	818.1	822.5
135°	596.5	647.3	691.9	730.2	753.7	767.7	773.2
137.5°	567.3	611.1	649.7	681.9	705.7	717.6	721.2
140°	550.4	587.9	621.5	651.3	673.1	685.7	684.9
142.5°	534.1	566.7	595.9	621.2	640.6	651.9	651.1
145°	512.9	537.9	560.6	580.1	596.5	602.8	604.3
147.5°	497.1	517.3	533.4	548.2	559.3	565.3	565.9
150°	487.1	503.5	518.3	530.1	538.7	543.4	543.4
152.5°	477.7	492.2	504.6	513.8	521.8	524.6	524.6
155°	464.4	476.1	485.5	492.5	498.8	500.4	501.1
157.5°	451.4	460.5	467.8	473.9	478.6	479.9	479.7
160°	443.3	451.1	456.6	462.1	466.7	466.7	466.0
162.5°	434.5	441.7	446.6	450.2	454.2	454.2	453.5
165°	422.2	427.7	431.6	434.7	437.8	437.0	437.0
167.5°	412.6	415.8	418.6	420.0	422.2	421.4	421.4
170°	405.8	408.9	410.5	411.2	412.8	412.0	412.0
172.5°	400.1	402.6	403.6	403.7	405.3	403.9	403.3
175°	392.5	394.0	394.0	394.0	394.8	394.0	393.3
177.5°	388.1	388.7	388.7	388.1	388.7	387.5	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)