

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: P331939

Luminaire Tested: **S123DIP-S560D1025U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331939
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-S560D1025U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6099.6 lumens
Efficiency: N/A
Efficacy: 137.1 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: Semi-Indirect

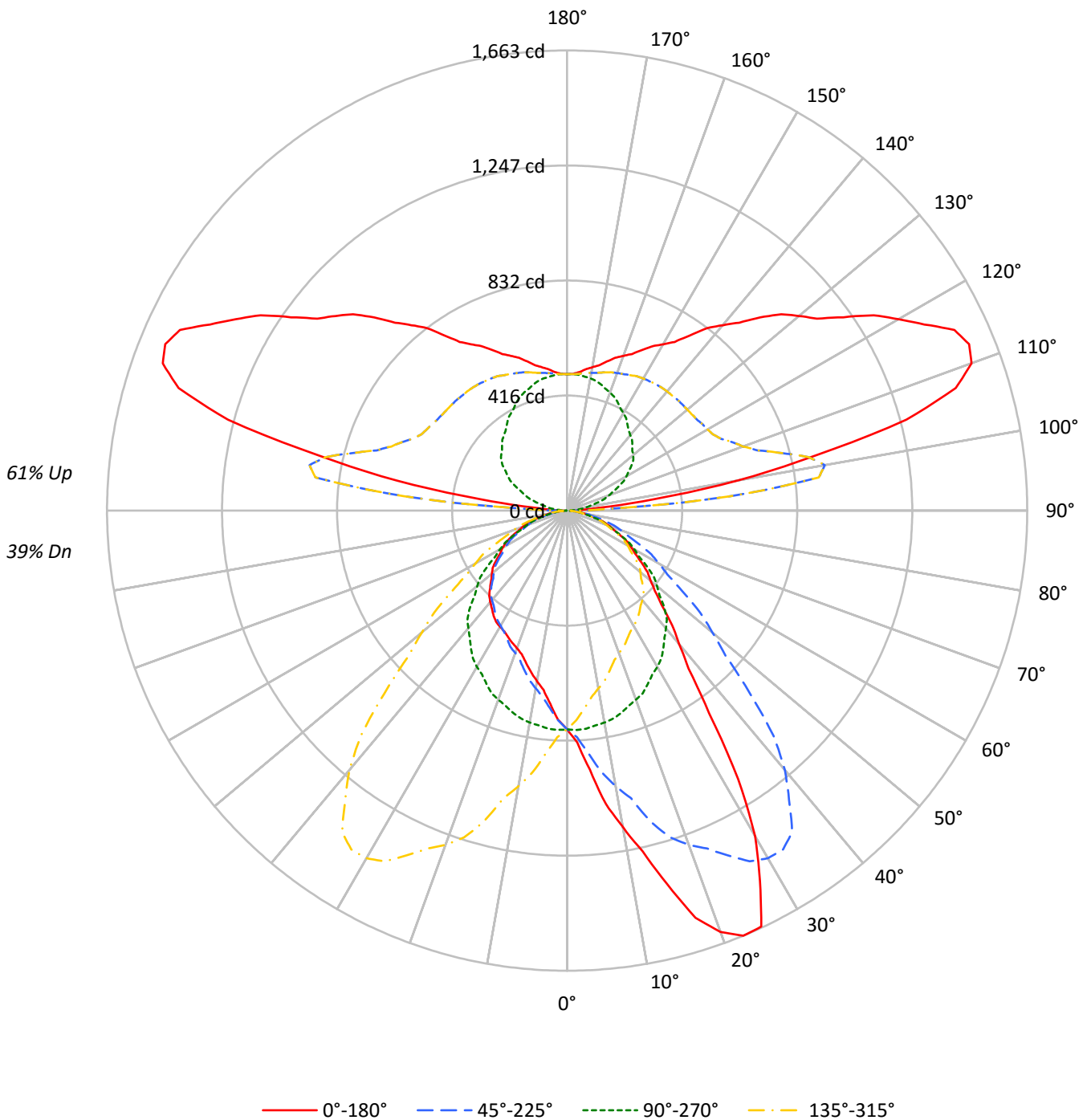
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

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	1.3
10°-20°	249.7	4.1
20°-30°	419.1	6.9
30°-40°	474.5	7.8
40°-50°	425.5	7.0
50°-60°	343.4	5.6
60°-70°	239.3	3.9
70°-80°	125.8	2.1
80°-90°	34.6	0.6
90°-100°	274.4	4.5
100°-110°	777.0	12.7
110°-120°	764.4	12.5
120°-130°	609.7	10.0
130°-140°	480.7	7.9
140°-150°	358.8	5.9
150°-160°	250.1	4.1
160°-170°	146.9	2.4
170°-180°	47.8	0.8
0°-30°	746.6	12.2
0°-40°	1221.1	20.0
0°-60°	1990.1	32.6
0°-90°	2389.7	39.2
90°-120°	1815.8	29.8
90°-150°	3265.1	53.5
90°-180°	3710.0	60.8
0°-180°	6099.6	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	31
90°	29	2	29	2	29	17
95°	116	34	116	34	116	209
105°	1270	116	1270	116	1270	1253
115°	1544	205	1544	205	1544	1500
125°	1218	284	1218	284	1218	1104
135°	987	333	987	333	987	766
145°	772	380	772	380	772	491
155°	640	432	640	432	640	298
165°	558	472	558	472	558	159
175°	502	492	502	492	502	49
180°	493	493	493	493	493	



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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°	15.0	14.6	14.7	14.8	14.7	14.6	14.7	14.8	14.9	15.4	15.1
90°	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0	115.8	153.5	168.9
95°	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3	480.1	591.9	527.0
97.5°	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8	981.4	917.3	671.6
100°	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9	1141.9	945.3	638.8
102.5°	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3	1149.9	893.4	590.9
105°	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6	1089.0	802.5	532.0
107.5°	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0	982.4	722.3	494.5
110°	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9	915.3	676.8	480.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6	857.0	646.4	472.1
115°	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2	786.6	613.9	469.1
117.5°	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0	744.0	594.7	470.9
120°	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4	721.7	585.9	474.1
122.5°	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9	703.3	580.3	479.7
125°	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6	679.8	573.0	488.1
127.5°	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2	659.0	569.4	497.7
130°	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7	647.8	567.0	504.1
132.5°	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7	637.4	566.2	508.9
135°	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7	623.9	565.0	516.1
137.5°	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2	612.1	562.8	520.8
140°	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8	604.9	562.0	524.0
142.5°	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2	598.5	560.4	526.4
145°	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9	589.9	558.0	528.0
147.5°	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5	581.5	554.2	528.0
150°	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9	575.9	551.0	528.0
152.5°	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1	569.6	547.0	525.6
155°	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9	560.0	540.0	523.0
157.5°	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0	549.2	533.8	519.7
160°	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0	542.0	529.0	518.1
162.5°	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4	534.8	524.2	514.9
165°	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0	525.0	517.1	510.1
167.5°	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2	515.7	509.9	505.3
170°	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1	510.1	505.1	502.1
172.5°	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7	504.5	501.1	499.7
175°	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1	498.1	496.1	496.1
177.5°	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7	493.9	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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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°	15.1	14.8	13.3	11.7	10.7	9.2	8.8	7.8	7.5	7.9	8.2
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4	18.4	26.8	34.5
95°	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9	36.9	47.9	64.9
97.5°	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9	58.9	67.5	82.2
100°	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9	74.9	81.9	95.8
102.5°	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6	92.4	98.6	111.8
105°	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8	118.8	124.8	136.8
107.5°	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5	145.5	151.3	163.1
110°	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7	164.7	169.7	180.7



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3	182.3	187.3	198.2
115°	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6	208.6	214.6	224.6
117.5°	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0	234.6	239.6	248.7
120°	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5	250.5	255.5	265.5
122.5°	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7	265.7	270.7	281.5
125°	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5	286.5	292.5	303.4
127.5°	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1	304.0	311.4	322.6
130°	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4	314.4	323.4	335.4
132.5°	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4	323.2	333.0	347.4
135°	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4	337.4	348.4	363.3
137.5°	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6	350.8	361.5	377.5
140°	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4	360.3	370.3	386.3
142.5°	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9	369.1	379.9	394.3
145°	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3	383.3	392.3	407.3
147.5°	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9	397.7	406.5	419.4
150°	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3	407.3	415.2	428.2
152.5°	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6	416.8	424.8	436.2
155°	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2	432.2	438.2	448.2
157.5°	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6	445.4	450.2	459.0
160°	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2	454.2	458.2	466.1
162.5°	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4	461.4	464.6	470.9
165°	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1	471.1	473.1	478.1
167.5°	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3	479.1	480.1	483.9
170°	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1	483.1	484.1	487.1
172.5°	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3	487.1	487.3	489.5
175°	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1	491.1	490.1	492.1
177.5°	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9	493.1	492.3	493.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-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°	8.3	9.0	9.3	10.2	10.5	11.4	11.2	10.8	11.0	12.1	11.3
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	28.9
92.5°	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0	66.7	58.9	53.7
95°	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3	243.6	190.7	154.7
97.5°	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8	717.5	588.7	469.3
100°	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9	1096.0	979.2	837.5
102.5°	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3	1267.7	1199.6	1109.8
105°	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6	1397.5	1416.4	1390.5
107.5°	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0	1381.1	1468.5	1504.1
110°	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9	1327.6	1453.3	1523.2



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6	1257.3	1398.2	1488.1
115°	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2	1144.9	1291.6	1400.4
117.5°	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0	1049.9	1181.6	1292.0
120°	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4	997.2	1117.0	1217.8
122.5°	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9	954.9	1065.9	1159.5
125°	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6	902.4	998.2	1078.0
127.5°	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2	856.2	942.7	1015.3
130°	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7	827.5	908.3	976.2
132.5°	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7	800.3	875.6	940.3
135°	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7	761.6	826.5	883.4
137.5°	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2	724.3	780.2	829.5
140°	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8	702.7	750.6	793.6
142.5°	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2	682.0	723.5	760.8
145°	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9	654.8	686.7	715.7
147.5°	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5	634.6	660.4	681.0
150°	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9	621.9	642.8	661.8
152.5°	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1	609.9	628.5	644.2
155°	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9	592.9	607.9	619.9
157.5°	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0	576.3	587.9	597.3
160°	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0	566.0	575.9	582.9
162.5°	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4	554.8	564.0	570.2
165°	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0	539.0	546.0	551.0
167.5°	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2	526.8	530.8	534.4
170°	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1	518.1	522.0	524.0
172.5°	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7	510.9	514.1	515.3
175°	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1	501.1	503.1	503.1
177.5°	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7	495.5	496.3	496.3
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-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°	11.1	11.3	11.2	10.7	11.2	11.3	11.1	11.3	12.1	11.0	10.8
90°	27.9	28.9	29.9	28.9	29.9	28.9	27.9	28.9	27.0	26.0	25.0
92.5°	51.9	48.9	49.9	48.1	49.9	48.9	51.9	53.7	58.9	66.7	84.0
95°	135.8	126.8	119.8	115.8	119.8	126.8	135.8	154.7	190.7	243.6	359.3
97.5°	395.7	350.8	323.8	315.2	323.8	350.8	395.7	469.3	588.7	717.5	895.8
100°	736.7	663.8	624.9	625.9	624.9	663.8	736.7	837.5	979.2	1096.0	1176.9
102.5°	1031.3	973.6	941.1	918.1	941.1	973.6	1031.3	1109.8	1199.6	1267.7	1270.3
105°	1344.5	1306.6	1274.7	1269.7	1274.7	1306.6	1344.5	1390.5	1416.4	1397.5	1297.6
107.5°	1504.9	1492.1	1481.3	1472.1	1481.3	1492.1	1504.9	1504.1	1468.5	1381.1	1219.0
110°	1551.2	1559.2	1557.2	1555.2	1557.2	1559.2	1551.2	1523.2	1453.3	1327.6	1143.9



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1539.2	1563.9	1571.5	1571.9	1571.5	1563.9	1539.2	1488.1	1398.2	1257.3	1069.6
115°	1475.3	1519.2	1539.2	1544.2	1539.2	1519.2	1475.3	1400.4	1291.6	1144.9	971.2
117.5°	1370.1	1420.4	1449.2	1455.9	1449.2	1420.4	1370.1	1292.0	1181.6	1049.9	900.0
120°	1296.6	1352.5	1376.5	1382.5	1376.5	1352.5	1296.6	1217.8	1117.0	997.2	862.4
122.5°	1229.6	1279.9	1306.2	1313.8	1306.2	1279.9	1229.6	1159.5	1065.9	954.9	832.9
125°	1141.9	1185.8	1210.8	1217.8	1210.8	1185.8	1141.9	1078.0	998.2	902.4	793.6
127.5°	1072.2	1109.8	1132.3	1138.7	1132.3	1109.8	1072.2	1015.3	942.7	856.2	759.2
130°	1029.1	1065.1	1086.0	1094.0	1086.0	1065.1	1029.1	976.2	908.3	827.5	737.7
132.5°	990.0	1025.9	1044.5	1050.1	1044.5	1025.9	990.0	940.3	875.6	800.3	717.7
135°	932.3	962.2	980.2	987.2	980.2	962.2	932.3	883.4	826.5	761.6	690.7
137.5°	870.6	901.0	916.1	920.7	916.1	901.0	870.6	829.5	780.2	724.3	666.2
140°	831.5	859.4	875.4	874.4	875.4	859.4	831.5	793.6	750.6	702.7	651.8
142.5°	793.2	817.9	832.3	831.3	832.3	817.9	793.2	760.8	723.5	682.0	638.2
145°	740.6	761.6	769.6	771.6	769.6	761.6	740.6	715.7	686.7	654.8	621.9
147.5°	699.9	714.1	721.7	722.5	721.7	714.1	699.9	681.0	660.4	634.6	608.5
150°	676.8	687.7	693.7	693.7	693.7	687.7	676.8	661.8	642.8	621.9	598.9
152.5°	656.0	666.2	669.8	669.8	669.8	666.2	656.0	644.2	628.5	609.9	590.1
155°	628.9	636.8	638.8	639.8	638.8	636.8	628.9	619.9	607.9	592.9	576.9
157.5°	605.1	611.1	612.7	612.5	612.7	611.1	605.1	597.3	587.9	576.3	563.0
160°	589.9	595.9	595.9	594.9	595.9	595.9	589.9	582.9	575.9	566.0	555.0
162.5°	574.8	579.9	579.9	578.9	579.9	579.9	574.8	570.2	564.0	554.8	545.4
165°	555.0	559.0	558.0	558.0	558.0	559.0	555.0	551.0	546.0	539.0	533.0
167.5°	536.2	539.0	538.0	538.0	538.0	539.0	536.2	534.4	530.8	526.8	522.2
170°	525.0	527.0	526.0	526.0	526.0	527.0	525.0	524.0	522.0	518.1	515.1
172.5°	515.5	517.5	515.7	514.9	515.7	517.5	515.5	515.3	514.1	510.9	508.7
175°	503.1	504.1	503.1	502.1	503.1	504.1	503.1	503.1	503.1	501.1	500.1
177.5°	495.5	496.3	494.7	494.7	494.7	496.3	495.5	496.3	496.3	495.5	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-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°	11.2	11.4	10.5	10.2	9.3	9.0	8.3	8.2	7.9	7.5	7.8
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	115.8	153.5	168.9	126.8	83.8	57.7	42.9	34.5	26.8	18.4	12.4
95°	480.1	591.9	527.0	363.3	214.6	129.8	90.8	64.9	47.9	36.9	33.9
97.5°	981.4	917.3	671.6	398.7	231.0	149.9	107.8	82.2	67.5	58.9	57.9
100°	1141.9	945.3	638.8	376.3	228.6	158.7	119.8	95.8	81.9	74.9	73.9
102.5°	1149.9	893.4	590.9	357.1	231.8	169.1	133.4	111.8	98.6	92.4	90.6
105°	1089.0	802.5	532.0	343.4	240.6	186.7	155.7	136.8	124.8	118.8	115.8
107.5°	982.4	722.3	494.5	342.4	256.9	209.6	180.9	163.1	151.3	145.5	142.5
110°	915.3	676.8	480.1	346.4	270.5	225.6	197.6	180.7	169.7	164.7	161.7



TEST NUMBER: P331939

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	857.0	646.4	472.1	354.4	284.1	242.4	215.2	198.2	187.3	182.3	179.3
115°	786.6	613.9	469.1	367.3	306.4	268.5	241.6	224.6	214.6	208.6	204.6
117.5°	744.0	594.7	470.9	384.5	330.2	292.7	267.7	248.7	239.6	234.6	230.0
120°	721.7	585.9	474.1	397.3	345.4	309.4	284.5	265.5	255.5	250.5	247.5
122.5°	703.3	580.3	479.7	409.3	361.3	326.2	299.7	281.5	270.7	265.7	262.7
125°	679.8	573.0	488.1	428.2	384.3	349.4	322.4	303.4	292.5	286.5	284.5
127.5°	659.0	569.4	497.7	443.8	404.3	370.5	343.6	322.6	311.4	304.0	301.1
130°	647.8	567.0	504.1	454.2	416.2	383.3	356.3	335.4	323.4	314.4	311.4
132.5°	637.4	566.2	508.9	463.8	426.6	394.5	368.3	347.4	333.0	323.2	319.4
135°	623.9	565.0	516.1	476.1	442.2	411.2	384.3	363.3	348.4	337.4	333.4
137.5°	612.1	562.8	520.8	485.3	453.0	423.2	398.3	377.5	361.5	350.8	346.6
140°	604.9	562.0	524.0	490.1	460.2	431.2	406.3	386.3	370.3	360.3	355.4
142.5°	598.5	560.4	526.4	494.9	465.8	437.6	414.2	394.3	379.9	369.1	364.9
145°	589.9	558.0	528.0	500.1	473.1	447.2	424.2	407.3	392.3	383.3	380.3
147.5°	581.5	554.2	528.0	503.3	479.1	455.4	435.8	419.4	406.5	397.7	395.9
150°	575.9	551.0	528.0	504.1	483.1	460.2	442.2	428.2	415.2	407.3	406.3
152.5°	569.6	547.0	525.6	505.7	485.5	465.8	448.6	436.2	424.8	416.8	416.6
155°	560.0	540.0	523.0	506.1	490.1	473.1	459.2	448.2	438.2	432.2	432.2
157.5°	549.2	533.8	519.7	507.1	492.7	479.1	468.3	459.0	450.2	445.4	444.6
160°	542.0	529.0	518.1	507.1	495.1	483.1	473.1	466.1	458.2	454.2	454.2
162.5°	534.8	524.2	514.9	506.3	495.9	485.5	477.1	470.9	464.6	461.4	461.4
165°	525.0	517.1	510.1	504.1	497.1	489.1	482.1	478.1	473.1	471.1	472.1
167.5°	515.7	509.9	505.3	502.5	496.9	491.1	486.7	483.9	480.1	479.1	480.3
170°	510.1	505.1	502.1	500.1	496.1	491.1	489.1	487.1	484.1	483.1	485.1
172.5°	504.5	501.1	499.7	499.3	496.1	491.9	490.7	489.5	487.3	487.1	488.3
175°	498.1	496.1	496.1	497.1	495.1	493.1	492.1	492.1	490.1	491.1	492.1
177.5°	493.9	493.1	493.9	495.5	493.9	493.1	493.1	493.1	492.3	493.1	493.9
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-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°	8.8	9.2	10.7	11.7	13.3	14.8	15.1	15.1	15.4	14.9	14.8
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.5	42.9	57.7	83.8	126.8	168.9	153.5	115.8	84.0
95°	36.9	47.9	64.9	90.8	129.8	214.6	363.3	527.0	591.9	480.1	359.3
97.5°	58.9	67.5	82.2	107.8	149.9	231.0	398.7	671.6	917.3	981.4	895.8
100°	74.9	81.9	95.8	119.8	158.7	228.6	376.3	638.8	945.3	1141.9	1176.9
102.5°	92.4	98.6	111.8	133.4	169.1	231.8	357.1	590.9	893.4	1149.9	1270.3
105°	118.8	124.8	136.8	155.7	186.7	240.6	343.4	532.0	802.5	1089.0	1297.6
107.5°	145.5	151.3	163.1	180.9	209.6	256.9	342.4	494.5	722.3	982.4	1219.0
110°	164.7	169.7	180.7	197.6	225.6	270.5	346.4	480.1	676.8	915.3	1143.9



TEST NUMBER: P331939

CATALOG NUMBER: S123DIP-S560D1025U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.3	187.3	198.2	215.2	242.4	284.1	354.4	472.1	646.4	857.0	1069.6
115°	208.6	214.6	224.6	241.6	268.5	306.4	367.3	469.1	613.9	786.6	971.2
117.5°	234.6	239.6	248.7	267.7	292.7	330.2	384.5	470.9	594.7	744.0	900.0
120°	250.5	255.5	265.5	284.5	309.4	345.4	397.3	474.1	585.9	721.7	862.4
122.5°	265.7	270.7	281.5	299.7	326.2	361.3	409.3	479.7	580.3	703.3	832.9
125°	286.5	292.5	303.4	322.4	349.4	384.3	428.2	488.1	573.0	679.8	793.6
127.5°	304.0	311.4	322.6	343.6	370.5	404.3	443.8	497.7	569.4	659.0	759.2
130°	314.4	323.4	335.4	356.3	383.3	416.2	454.2	504.1	567.0	647.8	737.7
132.5°	323.2	333.0	347.4	368.3	394.5	426.6	463.8	508.9	566.2	637.4	717.7
135°	337.4	348.4	363.3	384.3	411.2	442.2	476.1	516.1	565.0	623.9	690.7
137.5°	350.8	361.5	377.5	398.3	423.2	453.0	485.3	520.8	562.8	612.1	666.2
140°	360.3	370.3	386.3	406.3	431.2	460.2	490.1	524.0	562.0	604.9	651.8
142.5°	369.1	379.9	394.3	414.2	437.6	465.8	494.9	526.4	560.4	598.5	638.2
145°	383.3	392.3	407.3	424.2	447.2	473.1	500.1	528.0	558.0	589.9	621.9
147.5°	397.7	406.5	419.4	435.8	455.4	479.1	503.3	528.0	554.2	581.5	608.5
150°	407.3	415.2	428.2	442.2	460.2	483.1	504.1	528.0	551.0	575.9	598.9
152.5°	416.8	424.8	436.2	448.6	465.8	485.5	505.7	525.6	547.0	569.6	590.1
155°	432.2	438.2	448.2	459.2	473.1	490.1	506.1	523.0	540.0	560.0	576.9
157.5°	445.4	450.2	459.0	468.3	479.1	492.7	507.1	519.7	533.8	549.2	563.0
160°	454.2	458.2	466.1	473.1	483.1	495.1	507.1	518.1	529.0	542.0	555.0
162.5°	461.4	464.6	470.9	477.1	485.5	495.9	506.3	514.9	524.2	534.8	545.4
165°	471.1	473.1	478.1	482.1	489.1	497.1	504.1	510.1	517.1	525.0	533.0
167.5°	479.1	480.1	483.9	486.7	491.1	496.9	502.5	505.3	509.9	515.7	522.2
170°	483.1	484.1	487.1	489.1	491.1	496.1	500.1	502.1	505.1	510.1	515.1
172.5°	487.1	487.3	489.5	490.7	491.9	496.1	499.3	499.7	501.1	504.5	508.7
175°	491.1	490.1	492.1	492.1	493.1	495.1	497.1	496.1	496.1	498.1	500.1
177.5°	493.1	492.3	493.1	493.1	493.1	493.9	495.5	493.9	493.1	493.9	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1



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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°	14.7	14.6	14.7	14.8	14.7	14.6	15.0
90°	26.0	27.0	28.9	27.9	28.9	29.9	28.9
92.5°	66.7	58.9	53.7	51.9	48.9	49.9	48.1
95°	243.6	190.7	154.7	135.8	126.8	119.8	115.8
97.5°	717.5	588.7	469.3	395.7	350.8	323.8	315.2
100°	1096.0	979.2	837.5	736.7	663.8	624.9	625.9
102.5°	1267.7	1199.6	1109.8	1031.3	973.6	941.1	918.1
105°	1397.5	1416.4	1390.5	1344.5	1306.6	1274.7	1269.7
107.5°	1381.1	1468.5	1504.1	1504.9	1492.1	1481.3	1472.1
110°	1327.6	1453.3	1523.2	1551.2	1559.2	1557.2	1555.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1257.3	1398.2	1488.1	1539.2	1563.9	1571.5	1571.9
115°	1144.9	1291.6	1400.4	1475.3	1519.2	1539.2	1544.2
117.5°	1049.9	1181.6	1292.0	1370.1	1420.4	1449.2	1455.9
120°	997.2	1117.0	1217.8	1296.6	1352.5	1376.5	1382.5
122.5°	954.9	1065.9	1159.5	1229.6	1279.9	1306.2	1313.8
125°	902.4	998.2	1078.0	1141.9	1185.8	1210.8	1217.8
127.5°	856.2	942.7	1015.3	1072.2	1109.8	1132.3	1138.7
130°	827.5	908.3	976.2	1029.1	1065.1	1086.0	1094.0
132.5°	800.3	875.6	940.3	990.0	1025.9	1044.5	1050.1
135°	761.6	826.5	883.4	932.3	962.2	980.2	987.2
137.5°	724.3	780.2	829.5	870.6	901.0	916.1	920.7
140°	702.7	750.6	793.6	831.5	859.4	875.4	874.4
142.5°	682.0	723.5	760.8	793.2	817.9	832.3	831.3
145°	654.8	686.7	715.7	740.6	761.6	769.6	771.6
147.5°	634.6	660.4	681.0	699.9	714.1	721.7	722.5
150°	621.9	642.8	661.8	676.8	687.7	693.7	693.7
152.5°	609.9	628.5	644.2	656.0	666.2	669.8	669.8
155°	592.9	607.9	619.9	628.9	636.8	638.8	639.8
157.5°	576.3	587.9	597.3	605.1	611.1	612.7	612.5
160°	566.0	575.9	582.9	589.9	595.9	595.9	594.9
162.5°	554.8	564.0	570.2	574.8	579.9	579.9	578.9
165°	539.0	546.0	551.0	555.0	559.0	558.0	558.0
167.5°	526.8	530.8	534.4	536.2	539.0	538.0	538.0
170°	518.1	522.0	524.0	525.0	527.0	526.0	526.0
172.5°	510.9	514.1	515.3	515.5	517.5	515.7	514.9
175°	501.1	503.1	503.1	503.1	504.1	503.1	502.1
177.5°	495.5	496.3	496.3	495.5	496.3	494.7	494.7
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1

(END OF REPORT)