

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: P331912

Luminaire Tested: **S123DIP-S560D365U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331912
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-S560D365U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700.6 lumens
Efficiency: N/A
Efficacy: 134.6 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-Direct

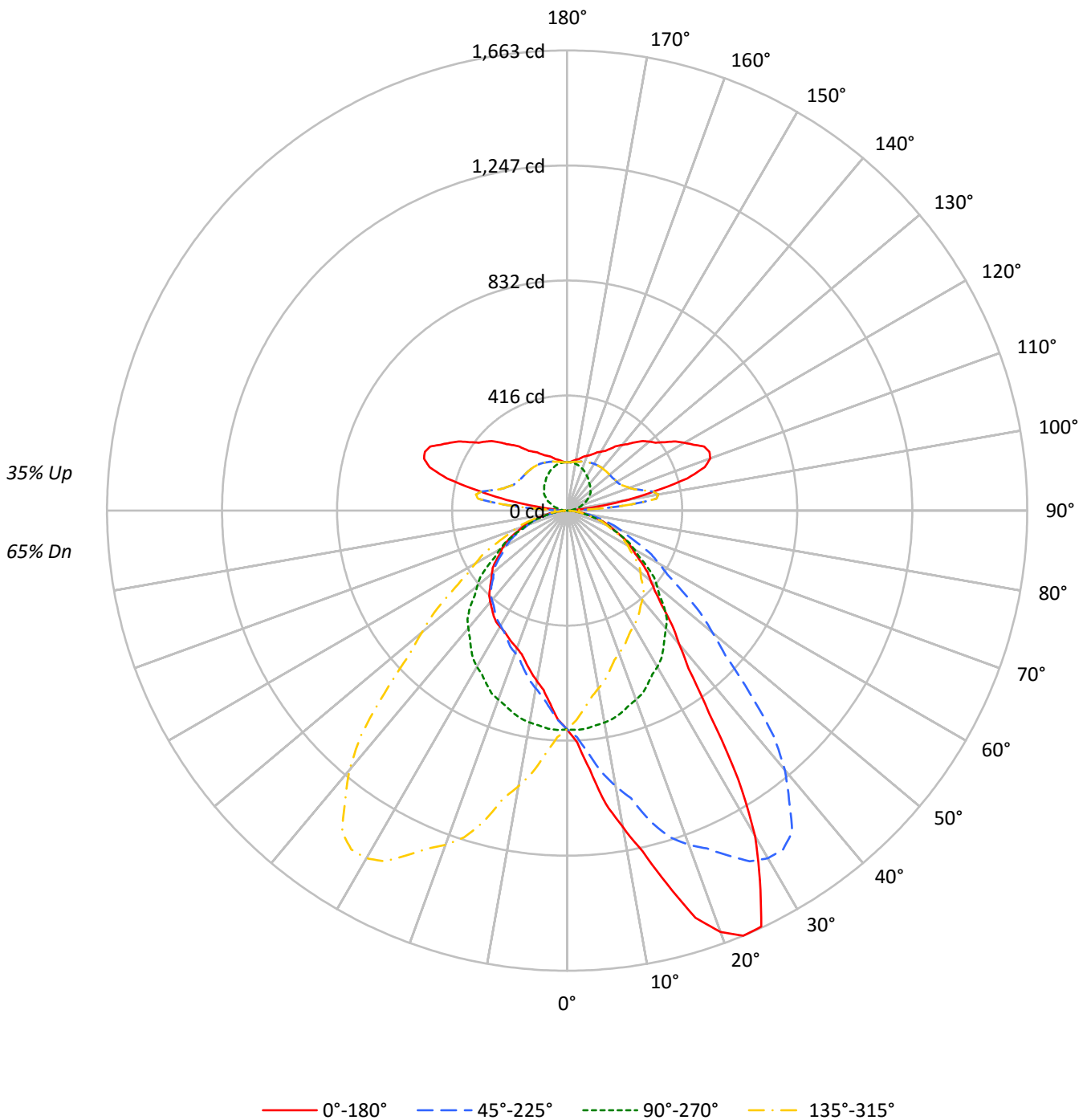
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	61	59	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	50	56	51	46	50	45	42	44	40	38	34
5	71	60	52	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	43	38	46	40	35	41	36	32	36	32	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	40	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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	2.1
10°-20°	249.7	6.7
20°-30°	419.1	11.3
30°-40°	474.5	12.8
40°-50°	425.5	11.5
50°-60°	343.4	9.3
60°-70°	239.3	6.5
70°-80°	125.8	3.4
80°-90°	32.1	0.9
90°-100°	97.2	2.6
100°-110°	275.1	7.4
110°-120°	270.6	7.3
120°-130°	215.9	5.8
130°-140°	170.2	4.6
140°-150°	127.0	3.4
150°-160°	88.5	2.4
160°-170°	52.0	1.4
170°-180°	16.9	0.5
0°-30°	746.6	20.2
0°-40°	1221.1	33.0
0°-60°	1990.1	53.8
0°-90°	2387.3	64.5
90°-120°	642.9	17.4
90°-150°	1155.9	31.2
90°-180°	1313.0	35.5
0°-180°	3700.6	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°	10	1	10	1	10	7
95°	41	12	41	12	41	74
105°	450	41	450	41	450	443
115°	547	72	547	72	547	531
125°	431	101	431	101	431	391
135°	350	118	350	118	350	271
145°	273	135	273	135	273	174
155°	226	153	226	153	226	106
165°	198	167	198	167	198	56
175°	178	174	178	174	178	17
180°	175	175	175	175	175	



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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°	11.2	10.7	10.9	11.2	10.9	11.1	11.3	11.6	11.8	12.2	12.3
90°	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8	8.5	8.8	7.8
92.5°	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8	41.0	54.3	59.8
95°	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2	170.0	209.6	186.6
97.5°	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1	347.4	324.8	237.8
100°	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6	404.3	334.7	226.2
102.5°	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7	407.1	316.3	209.2
105°	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4	385.5	284.1	188.4
107.5°	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5	347.8	255.7	175.1
110°	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0	324.1	239.6	170.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7	303.4	228.8	167.1
115°	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8	278.5	217.3	166.1
117.5°	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6	263.4	210.5	166.7
120°	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3	255.5	207.4	167.9
122.5°	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9	249.0	205.5	169.8
125°	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9	240.7	202.8	172.8
127.5°	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8	233.3	201.6	176.2
130°	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1	229.3	200.7	178.5
132.5°	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1	225.7	200.4	180.2
135°	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5	220.9	200.0	182.7
137.5°	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8	216.7	199.2	184.4
140°	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8	214.1	199.0	185.5
142.5°	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0	211.9	198.4	186.4
145°	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2	208.8	197.5	186.9
147.5°	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4	205.9	196.2	186.9
150°	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0	203.9	195.1	186.9
152.5°	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9	201.6	193.7	186.1
155°	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3	198.2	191.2	185.2
157.5°	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3	194.4	189.0	184.0
160°	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5	191.9	187.3	183.4
162.5°	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1	189.3	185.6	182.3
165°	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7	185.9	183.1	180.6
167.5°	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9	182.6	180.5	178.9
170°	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3	180.6	178.8	177.8
172.5°	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1	178.6	177.4	176.9
175°	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0	176.3	175.6	175.6
177.5°	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1	174.9	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



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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°	12.7	12.8	11.6	10.3	9.5	8.4	8.2	7.5	7.0	7.2	7.1
90°	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7	1.4	2.1	3.2
92.5°	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4	6.5	9.5	12.2
95°	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0	13.1	17.0	23.0
97.5°	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5	20.8	23.9	29.1
100°	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2	26.5	29.0	33.9
102.5°	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1	32.7	34.9	39.6
105°	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0	42.1	44.2	48.4
107.5°	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5	51.5	53.6	57.7
110°	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2	58.3	60.1	64.0



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5	64.5	66.3	70.2
115°	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4	73.9	76.0	79.5
117.5°	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4	83.0	84.8	88.1
120°	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6	88.7	90.5	94.0
122.5°	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0	94.1	95.8	99.7
125°	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7	101.4	103.5	107.4
127.5°	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6	107.6	110.3	114.2
130°	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3	111.3	114.5	118.7
132.5°	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1	114.4	117.9	123.0
135°	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0	119.4	123.3	128.6
137.5°	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7	124.2	128.0	133.6
140°	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8	127.6	131.1	136.8
142.5°	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2	130.7	134.5	139.6
145°	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6	135.7	138.9	144.2
147.5°	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2	140.8	143.9	148.5
150°	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8	144.2	147.0	151.6
152.5°	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5	147.6	150.4	154.4
155°	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0	153.0	155.1	158.7
157.5°	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4	157.7	159.4	162.5
160°	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8	160.8	162.2	165.0
162.5°	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3	163.3	164.5	166.7
165°	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1	166.8	167.5	169.3
167.5°	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0	169.6	170.0	171.3
170°	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7	171.0	171.4	172.4
172.5°	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9	172.4	172.5	173.3
175°	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2	173.9	173.5	174.2
177.5°	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9	174.6	174.3	174.6
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-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°	6.9	7.4	7.3	7.8	7.7	8.2	8.1	7.6	7.7	8.6	7.6
90°	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8	9.2	9.5	10.2
92.5°	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8	23.6	20.8	19.0
95°	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2	86.2	67.5	54.8
97.5°	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1	254.0	208.4	166.2
100°	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6	388.0	346.7	296.5
102.5°	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7	448.8	424.7	392.9
105°	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4	494.7	501.4	492.3
107.5°	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5	488.9	519.9	532.5
110°	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0	470.0	514.5	539.3



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7	445.1	495.0	526.8
115°	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8	405.3	457.3	495.8
117.5°	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6	371.7	418.3	457.4
120°	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3	353.0	395.4	431.1
122.5°	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9	338.0	377.3	410.5
125°	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9	319.5	353.4	381.7
127.5°	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8	303.1	333.7	359.5
130°	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1	293.0	321.6	345.6
132.5°	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1	283.3	310.0	332.9
135°	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5	269.6	292.6	312.7
137.5°	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8	256.4	276.2	293.7
140°	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8	248.8	265.7	280.9
142.5°	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0	241.4	256.1	269.3
145°	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2	231.8	243.1	253.4
147.5°	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4	224.7	233.8	241.1
150°	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0	220.2	227.6	234.3
152.5°	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9	215.9	222.5	228.1
155°	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3	209.9	215.2	219.4
157.5°	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3	204.0	208.1	211.5
160°	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5	200.4	203.9	206.4
162.5°	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1	196.4	199.7	201.9
165°	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7	190.8	193.3	195.1
167.5°	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9	186.5	187.9	189.2
170°	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3	183.4	184.8	185.5
172.5°	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1	180.9	182.0	182.4
175°	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0	177.4	178.1	178.1
177.5°	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1	175.4	175.7	175.7
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-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°	7.5	7.6	7.3	7.0	7.3	7.6	7.5	7.6	8.6	7.7	7.6
90°	9.9	10.2	10.6	10.2	10.6	10.2	9.9	10.2	9.5	9.2	8.8
92.5°	18.4	17.3	17.7	17.0	17.7	17.3	18.4	19.0	20.8	23.6	29.8
95°	48.1	44.9	42.4	41.0	42.4	44.9	48.1	54.8	67.5	86.2	127.2
97.5°	140.1	124.2	114.6	111.6	114.6	124.2	140.1	166.2	208.4	254.0	317.1
100°	260.8	235.0	221.2	221.6	221.2	235.0	260.8	296.5	346.7	388.0	416.6
102.5°	365.1	344.7	333.2	325.0	333.2	344.7	365.1	392.9	424.7	448.8	449.7
105°	476.0	462.6	451.3	449.5	451.3	462.6	476.0	492.3	501.4	494.7	459.4
107.5°	532.8	528.2	524.4	521.2	524.4	528.2	532.8	532.5	519.9	488.9	431.5
110°	549.2	552.0	551.3	550.6	551.3	552.0	549.2	539.3	514.5	470.0	405.0



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.9	553.7	556.4	556.5	556.4	553.7	544.9	526.8	495.0	445.1	378.7
115°	522.3	537.8	544.9	546.7	544.9	537.8	522.3	495.8	457.3	405.3	343.8
117.5°	485.1	502.9	513.0	515.4	513.0	502.9	485.1	457.4	418.3	371.7	318.6
120°	459.0	478.8	487.3	489.4	487.3	478.8	459.0	431.1	395.4	353.0	305.3
122.5°	435.3	453.1	462.4	465.1	462.4	453.1	435.3	410.5	377.3	338.0	294.9
125°	404.3	419.8	428.7	431.1	428.7	419.8	404.3	381.7	353.4	319.5	280.9
127.5°	379.6	392.9	400.9	403.1	400.9	392.9	379.6	359.5	333.7	303.1	268.8
130°	364.3	377.1	384.5	387.3	384.5	377.1	364.3	345.6	321.6	293.0	261.1
132.5°	350.5	363.2	369.8	371.8	369.8	363.2	350.5	332.9	310.0	283.3	254.1
135°	330.1	340.7	347.0	349.5	347.0	340.7	330.1	312.7	292.6	269.6	244.5
137.5°	308.2	319.0	324.3	326.0	324.3	319.0	308.2	293.7	276.2	256.4	235.8
140°	294.4	304.3	309.9	309.6	309.9	304.3	294.4	280.9	265.7	248.8	230.8
142.5°	280.8	289.6	294.6	294.3	294.6	289.6	280.8	269.3	256.1	241.4	226.0
145°	262.2	269.6	272.5	273.2	272.5	269.6	262.2	253.4	243.1	231.8	220.2
147.5°	247.8	252.8	255.5	255.8	255.5	252.8	247.8	241.1	233.8	224.7	215.4
150°	239.6	243.5	245.6	245.6	245.6	243.5	239.6	234.3	227.6	220.2	212.0
152.5°	232.2	235.8	237.1	237.1	237.1	235.8	232.2	228.1	222.5	215.9	208.9
155°	222.6	225.5	226.2	226.5	226.2	225.5	222.6	219.4	215.2	209.9	204.3
157.5°	214.2	216.3	216.9	216.8	216.9	216.3	214.2	211.5	208.1	204.0	199.3
160°	208.8	211.0	211.0	210.6	211.0	211.0	208.8	206.4	203.9	200.4	196.5
162.5°	203.5	205.3	205.3	205.0	205.3	205.3	203.5	201.9	199.7	196.4	193.1
165°	196.5	197.9	197.5	197.5	197.5	197.9	196.5	195.1	193.3	190.8	188.7
167.5°	189.8	190.8	190.5	190.5	190.5	190.8	189.8	189.2	187.9	186.5	184.9
170°	185.9	186.6	186.2	186.2	186.2	186.6	185.9	185.5	184.8	183.4	182.3
172.5°	182.5	183.2	182.6	182.3	182.6	183.2	182.5	182.4	182.0	180.9	180.1
175°	178.1	178.5	178.1	177.8	178.1	178.5	178.1	178.1	178.1	177.4	177.0
177.5°	175.4	175.7	175.1	175.1	175.1	175.7	175.4	175.7	175.7	175.4	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-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°	8.1	8.2	7.7	7.8	7.3	7.4	6.9	7.1	7.2	7.0	7.5
90°	8.5	8.8	7.8	6.7	5.7	4.6	3.9	3.2	2.1	1.4	0.7
92.5°	41.0	54.3	59.8	44.9	29.7	20.4	15.2	12.2	9.5	6.5	4.4
95°	170.0	209.6	186.6	128.6	76.0	45.9	32.2	23.0	17.0	13.1	12.0
97.5°	347.4	324.8	237.8	141.1	81.8	53.1	38.2	29.1	23.9	20.8	20.5
100°	404.3	334.7	226.2	133.2	80.9	56.2	42.4	33.9	29.0	26.5	26.2
102.5°	407.1	316.3	209.2	126.4	82.1	59.9	47.2	39.6	34.9	32.7	32.1
105°	385.5	284.1	188.4	121.6	85.2	66.1	55.1	48.4	44.2	42.1	41.0
107.5°	347.8	255.7	175.1	121.2	91.0	74.2	64.0	57.7	53.6	51.5	50.5
110°	324.1	239.6	170.0	122.6	95.8	79.9	70.0	64.0	60.1	58.3	57.2



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.4	228.8	167.1	125.5	100.6	85.8	76.2	70.2	66.3	64.5	63.5
115°	278.5	217.3	166.1	130.0	108.5	95.1	85.5	79.5	76.0	73.9	72.4
117.5°	263.4	210.5	166.7	136.1	116.9	103.6	94.8	88.1	84.8	83.0	81.4
120°	255.5	207.4	167.9	140.6	122.3	109.5	100.7	94.0	90.5	88.7	87.6
122.5°	249.0	205.5	169.8	144.9	127.9	115.5	106.1	99.7	95.8	94.1	93.0
125°	240.7	202.8	172.8	151.6	136.1	123.7	114.1	107.4	103.5	101.4	100.7
127.5°	233.3	201.6	176.2	157.1	143.1	131.2	121.6	114.2	110.3	107.6	106.6
130°	229.3	200.7	178.5	160.8	147.4	135.7	126.2	118.7	114.5	111.3	110.3
132.5°	225.7	200.4	180.2	164.2	151.0	139.7	130.4	123.0	117.9	114.4	113.1
135°	220.9	200.0	182.7	168.6	156.5	145.6	136.1	128.6	123.3	119.4	118.0
137.5°	216.7	199.2	184.4	171.8	160.4	149.8	141.0	133.6	128.0	124.2	122.7
140°	214.1	199.0	185.5	173.5	162.9	152.7	143.8	136.8	131.1	127.6	125.8
142.5°	211.9	198.4	186.4	175.2	164.9	154.9	146.7	139.6	134.5	130.7	129.2
145°	208.8	197.5	186.9	177.0	167.5	158.3	150.2	144.2	138.9	135.7	134.6
147.5°	205.9	196.2	186.9	178.2	169.6	161.2	154.3	148.5	143.9	140.8	140.2
150°	203.9	195.1	186.9	178.5	171.0	162.9	156.5	151.6	147.0	144.2	143.8
152.5°	201.6	193.7	186.1	179.0	171.9	164.9	158.8	154.4	150.4	147.6	147.5
155°	198.2	191.2	185.2	179.2	173.5	167.5	162.6	158.7	155.1	153.0	153.0
157.5°	194.4	189.0	184.0	179.5	174.4	169.6	165.8	162.5	159.4	157.7	157.4
160°	191.9	187.3	183.4	179.5	175.3	171.0	167.5	165.0	162.2	160.8	160.8
162.5°	189.3	185.6	182.3	179.2	175.6	171.9	168.9	166.7	164.5	163.3	163.3
165°	185.9	183.1	180.6	178.5	176.0	173.2	170.7	169.3	167.5	166.8	167.1
167.5°	182.6	180.5	178.9	177.9	175.9	173.9	172.3	171.3	170.0	169.6	170.0
170°	180.6	178.8	177.8	177.0	175.6	173.9	173.2	172.4	171.4	171.0	171.7
172.5°	178.6	177.4	176.9	176.8	175.6	174.1	173.7	173.3	172.5	172.4	172.9
175°	176.3	175.6	175.6	176.0	175.3	174.6	174.2	174.2	173.5	173.9	174.2
177.5°	174.9	174.6	174.9	175.4	174.9	174.6	174.6	174.6	174.3	174.6	174.9
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-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°	8.2	8.4	9.5	10.3	11.6	12.8	12.7	12.3	12.2	11.8	11.6
90°	1.4	2.1	3.2	3.9	4.6	5.7	6.7	7.8	8.8	8.5	8.8
92.5°	6.5	9.5	12.2	15.2	20.4	29.7	44.9	59.8	54.3	41.0	29.8
95°	13.1	17.0	23.0	32.2	45.9	76.0	128.6	186.6	209.6	170.0	127.2
97.5°	20.8	23.9	29.1	38.2	53.1	81.8	141.1	237.8	324.8	347.4	317.1
100°	26.5	29.0	33.9	42.4	56.2	80.9	133.2	226.2	334.7	404.3	416.6
102.5°	32.7	34.9	39.6	47.2	59.9	82.1	126.4	209.2	316.3	407.1	449.7
105°	42.1	44.2	48.4	55.1	66.1	85.2	121.6	188.4	284.1	385.5	459.4
107.5°	51.5	53.6	57.7	64.0	74.2	91.0	121.2	175.1	255.7	347.8	431.5
110°	58.3	60.1	64.0	70.0	79.9	95.8	122.6	170.0	239.6	324.1	405.0



TEST NUMBER: P331912

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	64.5	66.3	70.2	76.2	85.8	100.6	125.5	167.1	228.8	303.4	378.7
115°	73.9	76.0	79.5	85.5	95.1	108.5	130.0	166.1	217.3	278.5	343.8
117.5°	83.0	84.8	88.1	94.8	103.6	116.9	136.1	166.7	210.5	263.4	318.6
120°	88.7	90.5	94.0	100.7	109.5	122.3	140.6	167.9	207.4	255.5	305.3
122.5°	94.1	95.8	99.7	106.1	115.5	127.9	144.9	169.8	205.5	249.0	294.9
125°	101.4	103.5	107.4	114.1	123.7	136.1	151.6	172.8	202.8	240.7	280.9
127.5°	107.6	110.3	114.2	121.6	131.2	143.1	157.1	176.2	201.6	233.3	268.8
130°	111.3	114.5	118.7	126.2	135.7	147.4	160.8	178.5	200.7	229.3	261.1
132.5°	114.4	117.9	123.0	130.4	139.7	151.0	164.2	180.2	200.4	225.7	254.1
135°	119.4	123.3	128.6	136.1	145.6	156.5	168.6	182.7	200.0	220.9	244.5
137.5°	124.2	128.0	133.6	141.0	149.8	160.4	171.8	184.4	199.2	216.7	235.8
140°	127.6	131.1	136.8	143.8	152.7	162.9	173.5	185.5	199.0	214.1	230.8
142.5°	130.7	134.5	139.6	146.7	154.9	164.9	175.2	186.4	198.4	211.9	226.0
145°	135.7	138.9	144.2	150.2	158.3	167.5	177.0	186.9	197.5	208.8	220.2
147.5°	140.8	143.9	148.5	154.3	161.2	169.6	178.2	186.9	196.2	205.9	215.4
150°	144.2	147.0	151.6	156.5	162.9	171.0	178.5	186.9	195.1	203.9	212.0
152.5°	147.6	150.4	154.4	158.8	164.9	171.9	179.0	186.1	193.7	201.6	208.9
155°	153.0	155.1	158.7	162.6	167.5	173.5	179.2	185.2	191.2	198.2	204.3
157.5°	157.7	159.4	162.5	165.8	169.6	174.4	179.5	184.0	189.0	194.4	199.3
160°	160.8	162.2	165.0	167.5	171.0	175.3	179.5	183.4	187.3	191.9	196.5
162.5°	163.3	164.5	166.7	168.9	171.9	175.6	179.2	182.3	185.6	189.3	193.1
165°	166.8	167.5	169.3	170.7	173.2	176.0	178.5	180.6	183.1	185.9	188.7
167.5°	169.6	170.0	171.3	172.3	173.9	175.9	177.9	178.9	180.5	182.6	184.9
170°	171.0	171.4	172.4	173.2	173.9	175.6	177.0	177.8	178.8	180.6	182.3
172.5°	172.4	172.5	173.3	173.7	174.1	175.6	176.8	176.9	177.4	178.6	180.1
175°	173.9	173.5	174.2	174.2	174.6	175.3	176.0	175.6	175.6	176.3	177.0
177.5°	174.6	174.3	174.6	174.6	174.6	174.9	175.4	174.9	174.6	174.9	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6



TEST NUMBER: P331912

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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°	11.3	11.1	10.9	11.2	10.9	10.7	11.2
90°	9.2	9.5	10.2	9.9	10.2	10.6	10.2
92.5°	23.6	20.8	19.0	18.4	17.3	17.7	17.0
95°	86.2	67.5	54.8	48.1	44.9	42.4	41.0
97.5°	254.0	208.4	166.2	140.1	124.2	114.6	111.6
100°	388.0	346.7	296.5	260.8	235.0	221.2	221.6
102.5°	448.8	424.7	392.9	365.1	344.7	333.2	325.0
105°	494.7	501.4	492.3	476.0	462.6	451.3	449.5
107.5°	488.9	519.9	532.5	532.8	528.2	524.4	521.2
110°	470.0	514.5	539.3	549.2	552.0	551.3	550.6



TEST NUMBER: P331912

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	445.1	495.0	526.8	544.9	553.7	556.4	556.5
115°	405.3	457.3	495.8	522.3	537.8	544.9	546.7
117.5°	371.7	418.3	457.4	485.1	502.9	513.0	515.4
120°	353.0	395.4	431.1	459.0	478.8	487.3	489.4
122.5°	338.0	377.3	410.5	435.3	453.1	462.4	465.1
125°	319.5	353.4	381.7	404.3	419.8	428.7	431.1
127.5°	303.1	333.7	359.5	379.6	392.9	400.9	403.1
130°	293.0	321.6	345.6	364.3	377.1	384.5	387.3
132.5°	283.3	310.0	332.9	350.5	363.2	369.8	371.8
135°	269.6	292.6	312.7	330.1	340.7	347.0	349.5
137.5°	256.4	276.2	293.7	308.2	319.0	324.3	326.0
140°	248.8	265.7	280.9	294.4	304.3	309.9	309.6
142.5°	241.4	256.1	269.3	280.8	289.6	294.6	294.3
145°	231.8	243.1	253.4	262.2	269.6	272.5	273.2
147.5°	224.7	233.8	241.1	247.8	252.8	255.5	255.8
150°	220.2	227.6	234.3	239.6	243.5	245.6	245.6
152.5°	215.9	222.5	228.1	232.2	235.8	237.1	237.1
155°	209.9	215.2	219.4	222.6	225.5	226.2	226.5
157.5°	204.0	208.1	211.5	214.2	216.3	216.9	216.8
160°	200.4	203.9	206.4	208.8	211.0	211.0	210.6
162.5°	196.4	199.7	201.9	203.5	205.3	205.3	205.0
165°	190.8	193.3	195.1	196.5	197.9	197.5	197.5
167.5°	186.5	187.9	189.2	189.8	190.8	190.5	190.5
170°	183.4	184.8	185.5	185.9	186.6	186.2	186.2
172.5°	180.9	182.0	182.4	182.5	183.2	182.6	182.3
175°	177.4	178.1	178.1	178.1	178.5	178.1	177.8
177.5°	175.4	175.7	175.7	175.4	175.7	175.1	175.1
180°	174.6	174.6	174.6	174.6	174.6	174.6	174.6

(END OF REPORT)