

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: P331911

Luminaire Tested: **S123DIP-S560D365U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331911  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
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-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3633.7 lumens  
Efficiency: N/A  
Efficacy: 132.1 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-Direct

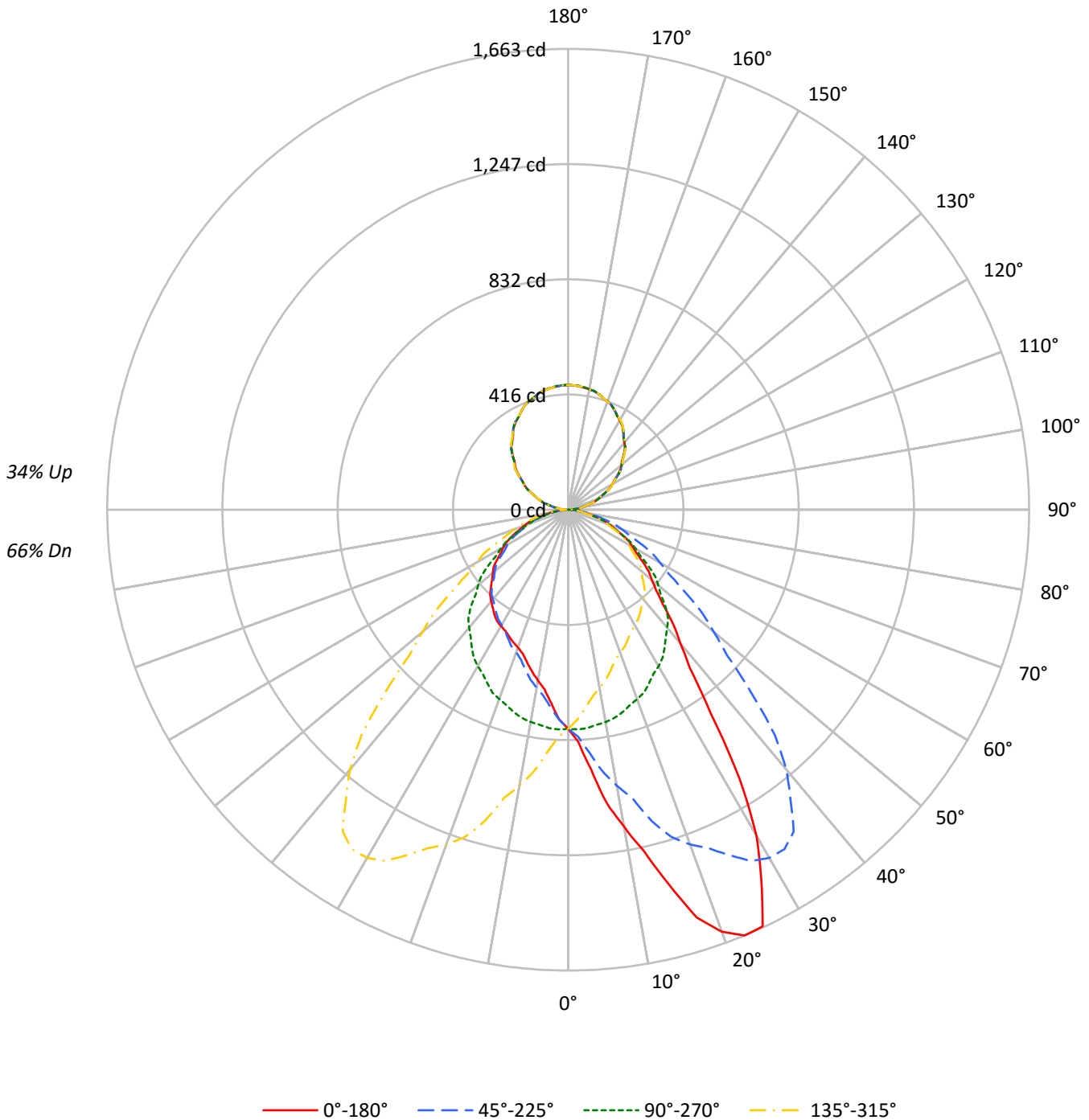
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	92	92	81	81	81	71	71	71	66
1	102	97	94	90	96	92	88	85	81	79	77	72	70	68	63	62	60	56
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	45	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	41	37	40	36	33	31
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	29	26	24
8	57	44	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	18

**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	6.9
20°-30°	419.1	11.5
30°-40°	474.5	13.1
40°-50°	425.5	11.7
50°-60°	343.4	9.5
60°-70°	239.3	6.6
70°-80°	125.8	3.5
80°-90°	32.1	0.9
90°-100°	29.3	0.8
100°-110°	87.7	2.4
110°-120°	149.2	4.1
120°-130°	196.2	5.4
130°-140°	220.6	6.1
140°-150°	216.8	6.0
150°-160°	182.5	5.0
160°-170°	121.5	3.3
170°-180°	42.5	1.2
0°-30°	746.6	20.5
0°-40°	1221.1	33.6
0°-60°	1990.1	54.8
0°-90°	2387.2	65.7
90°-120°	266.2	7.3
90°-150°	899.9	24.8
90°-180°	1246.0	34.3
0°-180°	3633.7	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°	11	0	11	0	11	6
95°	28	21	28	21	28	28
105°	84	80	84	80	84	89
115°	150	150	150	150	150	149
125°	217	220	217	220	217	194
135°	285	285	285	285	285	219
145°	346	346	346	346	346	216
155°	395	396	395	396	395	182
165°	430	432	430	432	430	121
175°	447	449	447	449	447	42
180°	450	450	450	450	450	



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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°	11.3	10.7	10.9	11.2	10.9	11.1	11.4	11.6	11.9	12.1	12.2
90°	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1	8.8	8.5	7.5
92.5°	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1	13.8	13.6	13.0
95°	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8	26.5	26.2	25.5
97.5°	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6	41.3	40.9	40.5
100°	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4	52.2	51.9	51.6
102.5°	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9	64.6	64.4	63.9
105°	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4	83.4	83.4	82.7
107.5°	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5	103.2	103.0	102.7
110°	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9	116.6	116.3	116.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3	129.9	129.6	129.5
115°	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7	150.6	150.5	150.7
117.5°	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3	171.3	171.3	171.5
120°	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0	185.1	185.2	185.6
122.5°	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9	199.1	199.3	199.5
125°	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5	219.8	220.2	220.3
127.5°	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9	240.4	240.8	241.0
130°	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5	253.8	254.1	254.3
132.5°	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6	267.0	267.4	267.5
135°	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3	286.6	287.0	287.0
137.5°	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6	305.9	306.2	306.0
140°	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2	318.3	318.4	318.3
142.5°	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1	330.2	330.3	330.1
145°	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6	347.7	347.7	347.5
147.5°	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2	374.2	374.2	374.1
152.5°	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5	383.4	383.3	383.2
155°	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1	396.8	396.5	396.4
157.5°	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8	408.5	408.2	408.1
160°	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0	415.6	415.2	415.2
162.5°	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8	422.4	422.0	422.0
165°	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4	430.9	430.4	430.4
167.5°	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3	437.8	437.4	437.3
170°	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1	441.6	441.0	441.0
172.5°	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1	444.6	444.1	444.1
175°	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3	447.9	447.4	447.4
177.5°	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8	449.4	449.0	449.0
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



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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°	12.6	12.7	11.6	10.2	9.4	8.4	8.2	7.4	7.0	7.1	7.0
90°	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4	1.1	1.9	2.7
92.5°	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6	9.1	9.6	10.2
95°	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9	21.4	21.9	22.5
97.5°	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0	37.4	37.9	38.3
100°	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1	48.5	49.0	49.5
102.5°	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8	61.1	61.3	61.6
105°	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5	79.7	79.8	80.0
107.5°	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3	101.4	101.5	101.6
110°	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9	115.0	115.2	115.3





TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0	129.1	129.2	129.3
115°	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2	150.4	150.7	150.9
117.5°	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5	171.7	171.9	172.0
120°	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8	185.3	185.8	186.2
122.5°	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7	199.0	199.4	199.7
125°	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8	220.0	220.3	220.5
127.5°	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3	239.8	240.3	240.8
130°	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3	252.9	253.6	254.2
132.5°	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3	266.0	266.6	267.2
135°	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2	285.7	286.1	286.6
137.5°	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6	304.0	304.3	304.7
140°	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3	316.7	317.1	317.5
142.5°	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9	328.3	328.7	329.1
145°	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0	346.1	346.3	346.4
147.5°	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8	362.1	362.4	362.7
150°	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8	373.0	373.1	373.3
152.5°	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9	382.1	382.3	382.5
155°	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3	408.2	408.1	408.0
160°	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9	415.8	415.6	415.5
162.5°	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7	422.5	422.3	422.1
165°	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5	431.3	431.0	430.8
167.5°	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5	438.2	437.9	437.5
170°	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4	442.1	441.8	441.5
172.5°	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6	445.2	444.9	444.6
175°	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8	448.5	448.2	447.9
177.5°	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1	449.9	449.6	449.4
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**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°	6.8	7.3	7.2	7.7	7.6	8.1	8.2	7.6	7.7	8.7	7.5
90°	3.5	4.4	5.4	6.4	7.5	8.5	8.8	9.1	9.4	9.7	10.0
92.5°	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1	14.3	14.6	14.7
95°	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8	27.1	27.4	27.6
97.5°	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6	42.0	42.4	42.5
100°	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4	52.7	52.9	53.1
102.5°	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9	65.1	65.3	65.4
105°	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4	83.4	83.4	83.5
107.5°	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5	103.7	104.0	104.1
110°	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9	117.2	117.5	117.6



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3	130.7	131.1	131.2
115°	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7	150.8	150.9	150.9
117.5°	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3	171.3	171.3	171.1
120°	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0	184.9	184.9	184.7
122.5°	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9	198.7	198.5	198.3
125°	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5	219.2	218.9	218.6
127.5°	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9	239.5	239.0	238.6
130°	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5	253.1	252.8	252.4
132.5°	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6	266.2	265.9	265.5
135°	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3	286.0	285.7	285.5
137.5°	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6	305.3	304.9	304.6
140°	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2	318.2	318.1	317.8
142.5°	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1	330.0	330.0	329.7
145°	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6	347.5	347.4	347.2
147.5°	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2	374.2	374.2	374.0
152.5°	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5	383.7	383.8	383.6
155°	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1	397.4	397.8	397.6
157.5°	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8	409.2	409.5	409.4
160°	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0	416.4	416.8	416.8
162.5°	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8	423.2	423.6	423.5
165°	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4	431.8	432.3	432.3
167.5°	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3	438.8	439.3	439.3
170°	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1	442.7	443.2	443.2
172.5°	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1	445.6	446.1	446.1
175°	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3	448.8	449.3	449.2
177.5°	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8	450.1	450.5	450.5
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**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	7.5	8.7	7.7	7.6
90°	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1
92.5°	14.6	14.5	14.4	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1
95°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8
97.5°	42.5	42.5	42.4	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6
100°	53.2	53.4	53.6	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4
102.5°	65.4	65.4	65.3	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9
105°	83.6	83.8	84.0	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4
107.5°	104.0	103.9	103.8	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5
110°	117.4	117.3	117.1	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	131.2	131.2	131.1	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3
115°	150.8	150.7	150.6	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7
117.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3
120°	184.6	184.4	184.3	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0
122.5°	198.1	197.8	197.6	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9
125°	218.3	218.0	217.6	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5
127.5°	238.3	237.9	237.6	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9
130°	251.9	251.3	250.8	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5
132.5°	265.0	264.6	264.2	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6
135°	285.3	285.1	285.0	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3
137.5°	304.3	304.0	303.7	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6
140°	317.2	316.7	316.1	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2
142.5°	329.3	328.9	328.4	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1
145°	346.9	346.6	346.3	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6
147.5°	363.4	362.9	362.4	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1
150°	373.5	373.1	372.6	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2
152.5°	383.2	382.8	382.4	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5
155°	397.1	396.5	396.0	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1
157.5°	409.0	408.6	408.1	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8
160°	416.5	416.2	415.9	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0
162.5°	423.0	422.5	422.0	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8
165°	431.7	431.2	430.6	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4
167.5°	438.8	438.3	437.8	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3
170°	442.7	442.1	441.6	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1
172.5°	445.5	445.0	444.4	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1
175°	448.7	448.1	447.6	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3
177.5°	450.1	449.6	449.2	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**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°	8.2	8.1	7.6	7.7	7.2	7.3	6.8	7.0	7.1	7.0	7.4
90°	8.8	8.5	7.5	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4
92.5°	13.8	13.6	13.0	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6
95°	26.5	26.2	25.5	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9
97.5°	41.3	40.9	40.5	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0
100°	52.2	51.9	51.6	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1
102.5°	64.6	64.4	63.9	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8
105°	83.4	83.4	82.7	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5
107.5°	103.2	103.0	102.7	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3
110°	116.6	116.3	116.1	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	129.9	129.6	129.5	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0
115°	150.6	150.5	150.7	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2
117.5°	171.3	171.3	171.5	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5
120°	185.1	185.2	185.6	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8
122.5°	199.1	199.3	199.5	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7
125°	219.8	220.2	220.3	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8
127.5°	240.4	240.8	241.0	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3
130°	253.8	254.1	254.3	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3
132.5°	267.0	267.4	267.5	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3
135°	286.6	287.0	287.0	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2
137.5°	305.9	306.2	306.0	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6
140°	318.3	318.4	318.3	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3
142.5°	330.2	330.3	330.1	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9
145°	347.7	347.7	347.5	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0
147.5°	364.1	364.1	363.8	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8
150°	374.2	374.2	374.1	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8
152.5°	383.4	383.3	383.2	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9
155°	396.8	396.5	396.4	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.5	408.2	408.1	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3
160°	415.6	415.2	415.2	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9
162.5°	422.4	422.0	422.0	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7
165°	430.9	430.4	430.4	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5
167.5°	437.8	437.4	437.3	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5
170°	441.6	441.0	441.0	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4
172.5°	444.6	444.1	444.1	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6
175°	447.9	447.4	447.4	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8
177.5°	449.4	449.0	449.0	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**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	9.4	10.2	11.6	12.7	12.6	12.2	12.1	11.9	11.6
90°	1.1	1.9	2.7	3.5	4.4	5.4	6.4	7.5	8.5	8.8	9.1
92.5°	9.1	9.6	10.2	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1
95°	21.4	21.9	22.5	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8
97.5°	37.4	37.9	38.3	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6
100°	48.5	49.0	49.5	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4
102.5°	61.1	61.3	61.6	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9
105°	79.7	79.8	80.0	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4
107.5°	101.4	101.5	101.6	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5
110°	115.0	115.2	115.3	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9





TEST NUMBER: P331911

CATALOG NUMBER: S123DIP-S560D365U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	129.1	129.2	129.3	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3
115°	150.4	150.7	150.9	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7
117.5°	171.7	171.9	172.0	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3
120°	185.3	185.8	186.2	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0
122.5°	199.0	199.4	199.7	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9
125°	220.0	220.3	220.5	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5
127.5°	239.8	240.3	240.8	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9
130°	252.9	253.6	254.2	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5
132.5°	266.0	266.6	267.2	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6
135°	285.7	286.1	286.6	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3
137.5°	304.0	304.3	304.7	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6
140°	316.7	317.1	317.5	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2
142.5°	328.3	328.7	329.1	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1
145°	346.1	346.3	346.4	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6
147.5°	362.1	362.4	362.7	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1
150°	373.0	373.1	373.3	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2
152.5°	382.1	382.3	382.5	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5
155°	396.2	396.2	396.2	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1
157.5°	408.2	408.1	408.0	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8
160°	415.8	415.6	415.5	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0
162.5°	422.5	422.3	422.1	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8
165°	431.3	431.0	430.8	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4
167.5°	438.2	437.9	437.5	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3
170°	442.1	441.8	441.5	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1
172.5°	445.2	444.9	444.6	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1
175°	448.5	448.2	447.9	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3
177.5°	449.9	449.6	449.4	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



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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°	11.4	11.1	10.9	11.2	10.9	10.7	11.3
90°	9.4	9.7	10.0	10.1	10.3	10.4	10.6
92.5°	14.3	14.6	14.7	14.6	14.5	14.4	14.3
95°	27.1	27.4	27.6	27.6	27.6	27.6	27.6
97.5°	42.0	42.4	42.5	42.5	42.5	42.4	42.4
100°	52.7	52.9	53.1	53.2	53.4	53.6	53.7
102.5°	65.1	65.3	65.4	65.4	65.4	65.3	65.3
105°	83.4	83.4	83.5	83.6	83.8	84.0	84.1
107.5°	103.7	104.0	104.1	104.0	103.9	103.8	103.7
110°	117.2	117.5	117.6	117.4	117.3	117.1	117.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.7	131.1	131.2	131.2	131.2	131.1	131.1
115°	150.8	150.9	150.9	150.8	150.7	150.6	150.5
117.5°	171.3	171.3	171.1	170.9	170.7	170.5	170.3
120°	184.9	184.9	184.7	184.6	184.4	184.3	184.1
122.5°	198.7	198.5	198.3	198.1	197.8	197.6	197.4
125°	219.2	218.9	218.6	218.3	218.0	217.6	217.3
127.5°	239.5	239.0	238.6	238.3	237.9	237.6	237.2
130°	253.1	252.8	252.4	251.9	251.3	250.8	250.2
132.5°	266.2	265.9	265.5	265.0	264.6	264.2	263.8
135°	286.0	285.7	285.5	285.3	285.1	285.0	284.8
137.5°	305.3	304.9	304.6	304.3	304.0	303.7	303.4
140°	318.2	318.1	317.8	317.2	316.7	316.1	315.6
142.5°	330.0	330.0	329.7	329.3	328.9	328.4	328.0
145°	347.5	347.4	347.2	346.9	346.6	346.3	346.0
147.5°	364.1	364.1	363.8	363.4	362.9	362.4	361.9
150°	374.2	374.2	374.0	373.5	373.1	372.6	372.1
152.5°	383.7	383.8	383.6	383.2	382.8	382.4	382.0
155°	397.4	397.8	397.6	397.1	396.5	396.0	395.4
157.5°	409.2	409.5	409.4	409.0	408.6	408.1	407.7
160°	416.4	416.8	416.8	416.5	416.2	415.9	415.6
162.5°	423.2	423.6	423.5	423.0	422.5	422.0	421.5
165°	431.8	432.3	432.3	431.7	431.2	430.6	430.1
167.5°	438.8	439.3	439.3	438.8	438.3	437.8	437.4
170°	442.7	443.2	443.2	442.7	442.1	441.6	441.0
172.5°	445.6	446.1	446.1	445.5	445.0	444.4	443.9
175°	448.8	449.3	449.2	448.7	448.1	447.6	447.0
177.5°	450.1	450.5	450.5	450.1	449.6	449.2	448.7
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9

(END OF REPORT)