

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: P331921-830

Luminaire Tested: **S123DIP-S560D585U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331921-830
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-S560D585U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4248.9 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

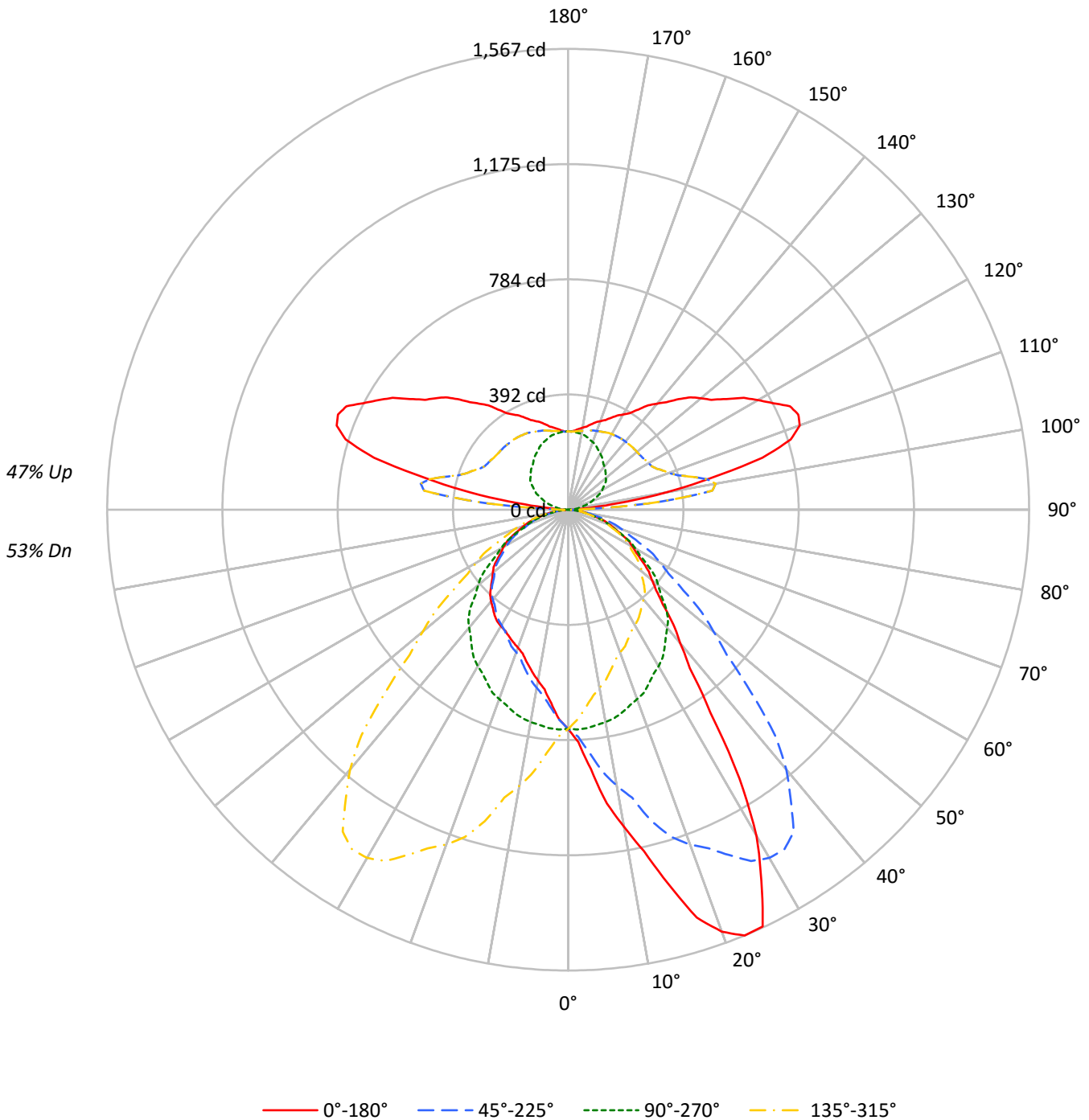
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
3	82	73	66	60	76	68	62	57	58	54	50	50	46	43	41	39	37	33
4	75	65	57	51	70	60	53	48	52	47	43	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	37	30	25	32	26	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8020	8020	8020	8020
5°	9564	8055	7138	8055
10°	11970	8014	6446	8014
15°	14683	7949	6002	7949
20°	17491	7848	5715	7848
25°	18573	7726	5651	7726
30°	15919	7636	5680	7636
35°	11071	7510	5740	7510
40°	8338	7360	5722	7360
45°	6925	7138	5649	7138
50°	6203	6687	5598	6687
55°	5799	6199	5527	6199
60°	5440	5690	5470	5690
65°	5112	5186	5295	5186
70°	4793	4614	5042	4614
75°	4292	4038	4625	4038
80°	3756	3310	3986	3310
85°	2939	2408	2680	2408



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.7
10°-20°	235.3	5.5
20°-30°	395.0	9.3
30°-40°	447.2	10.5
40°-50°	401.1	9.4
50°-60°	323.7	7.6
60°-70°	225.5	5.3
70°-80°	118.5	2.8
80°-90°	31.0	0.7
90°-100°	147.8	3.5
100°-110°	418.5	9.8
110°-120°	411.7	9.7
120°-130°	328.4	7.7
130°-140°	258.9	6.1
140°-150°	193.2	4.5
150°-160°	134.7	3.2
160°-170°	79.1	1.9
170°-180°	25.7	0.6
0°-30°	703.7	16.6
0°-40°	1151.0	27.1
0°-60°	1875.7	44.1
0°-90°	2250.9	53.0
90°-120°	978.0	23.0
90°-150°	1758.5	41.4
90°-180°	1998.0	47.0
0°-180°	4248.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	745	745	745	745	745	
5°	885	746	661	746	885	92
15°	1318	713	539	713	1318	380
25°	1564	650	476	650	1564	686
35°	842	572	437	572	842	547
45°	455	469	371	469	455	360
55°	309	330	294	330	309	277
65°	201	204	208	204	201	200
75°	103	97	111	97	103	110
85°	24	20	22	20	24	29
90°	16	1	16	1	16	9
95°	62	18	62	18	62	112
105°	684	62	684	62	684	675
115°	832	110	832	110	832	808
125°	656	153	656	153	656	594
135°	532	180	532	180	532	412
145°	416	205	416	205	416	264
155°	345	233	345	233	345	161
165°	300	254	300	254	300	86
175°	270	265	270	265	270	26
180°	266	266	266	266	266	



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	790.7	790.1	788.7	789.9	787.5	784.4	784.1	781.2	772.8	772.2	770.0
5°	885.1	882.2	881.9	881.6	876.5	869.6	856.6	855.5	838.2	829.5	819.1
7.5°	1007.5	1009.0	1003.7	999.1	983.6	973.5	959.5	941.7	920.4	898.8	884.4
10°	1095.2	1107.1	1092.3	1082.2	1072.9	1055.2	1034.6	1009.0	983.4	953.4	930.7
12.5°	1189.4	1195.2	1192.3	1182.7	1168.2	1141.2	1104.8	1076.6	1052.9	1003.1	982.9
15°	1317.6	1339.6	1325.6	1293.1	1293.8	1268.2	1220.5	1168.2	1140.4	1096.6	1037.1
17.5°	1454.2	1457.0	1451.0	1423.9	1405.8	1370.6	1326.6	1276.5	1220.1	1167.3	1104.1
20°	1527.0	1524.8	1512.2	1498.1	1467.1	1439.6	1391.6	1335.7	1263.5	1211.4	1142.6
22.5°	1567.4	1563.8	1557.8	1546.1	1520.2	1490.7	1447.7	1386.5	1317.8	1246.1	1166.5
25°	1563.8	1568.5	1569.2	1565.9	1557.0	1539.3	1505.3	1456.6	1388.0	1296.0	1213.0
27.5°	1422.3	1428.9	1448.2	1465.4	1484.5	1503.9	1501.4	1477.2	1426.4	1346.9	1245.4
30°	1280.8	1266.3	1302.1	1347.2	1377.9	1432.0	1462.4	1464.1	1435.7	1367.4	1268.5
32.5°	1084.4	1100.3	1116.1	1171.6	1238.7	1299.5	1359.8	1408.4	1414.0	1368.6	1282.0
35°	842.5	862.4	891.3	920.2	992.4	1054.4	1160.6	1253.0	1326.6	1336.3	1283.3
37.5°	678.9	688.8	707.0	735.9	783.2	856.9	939.0	1055.7	1162.4	1241.8	1245.3
40°	593.4	596.3	616.9	638.9	677.2	737.8	811.9	915.1	1042.9	1153.8	1200.0
42.5°	529.3	535.7	544.4	565.6	596.1	641.7	710.5	795.9	912.9	1040.5	1130.9
45°	454.9	462.0	467.5	481.5	503.2	533.9	581.9	659.9	749.0	880.8	1002.5
47.5°	405.6	406.1	410.2	420.8	435.5	458.6	492.6	542.6	624.5	731.3	856.3
50°	370.4	376.2	377.6	385.9	397.5	414.4	442.6	485.1	552.3	646.2	761.0
52.5°	345.5	347.2	351.3	357.3	367.4	380.6	405.0	438.4	491.1	571.1	676.7
55°	309.0	309.0	313.0	317.6	323.5	335.4	351.6	376.2	416.2	478.3	565.7
57.5°	275.2	277.0	279.8	281.3	286.2	294.1	307.6	326.3	356.2	404.0	473.4
60°	252.7	255.9	255.6	258.4	262.8	268.9	280.5	295.7	322.3	360.6	419.1
62.5°	233.1	232.8	232.8	236.2	240.5	246.4	253.9	267.0	289.7	323.7	373.4
65°	200.7	200.0	202.6	204.7	206.1	210.5	216.2	227.8	243.0	268.2	306.8
67.5°	172.0	169.8	171.3	172.0	174.5	177.9	183.2	190.4	202.5	222.7	251.8
70°	152.3	150.5	150.1	150.9	153.1	155.6	159.6	166.5	177.6	193.9	215.2
72.5°	132.1	130.9	130.8	132.4	133.5	135.1	137.9	144.2	153.1	165.2	185.1
75°	103.2	103.2	103.2	103.6	104.7	106.1	108.3	111.5	118.4	127.1	140.4
77.5°	77.4	77.3	76.9	76.8	78.4	79.1	79.6	82.6	86.4	92.3	102.0
80°	60.6	58.8	59.6	60.6	61.4	61.7	62.8	63.5	66.8	70.0	76.9
82.5°	45.1	43.5	43.6	45.3	45.5	45.8	46.9	48.0	49.2	52.1	55.8
85°	23.8	23.8	24.2	24.2	24.5	24.2	25.3	25.6	25.6	27.4	29.6
87.5°	11.8	11.3	11.5	11.7	11.5	11.6	11.8	12.0	12.1	12.5	12.4
90°	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5	12.9	13.5	11.8
92.5°	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2	62.4	82.7	91.0
95°	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5	258.5	318.8	283.9
97.5°	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5	528.6	494.1	361.7
100°	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9	615.0	509.1	344.0
102.5°	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2	619.3	481.2	318.3
105°	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9	586.5	432.3	286.5
107.5°	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5	529.1	389.0	266.4
110°	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0	492.9	364.5	258.5



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1	461.6	348.2	254.3
115°	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1	423.7	330.6	252.7
117.5°	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7	400.8	320.3	253.6
120°	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5	388.7	315.6	255.3
122.5°	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6	378.8	312.5	258.4
125°	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3	366.1	308.6	262.9
127.5°	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9	355.0	306.6	268.1
130°	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3	348.9	305.4	271.5
132.5°	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5	343.3	304.9	274.1
135°	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0	336.0	304.3	278.0
137.5°	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8	329.7	303.1	280.5
140°	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1	325.7	302.7	282.2
142.5°	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7	322.3	301.8	283.5
145°	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9	317.7	300.5	284.4
147.5°	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7	313.2	298.5	284.4
150°	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5	310.2	296.7	284.4
152.5°	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8	306.8	294.6	283.1
155°	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8	301.6	290.9	281.7
157.5°	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2	295.8	287.5	279.8
160°	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9	291.9	284.9	279.0
162.5°	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8	288.0	282.4	277.3
165°	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1	282.8	278.5	274.8
167.5°	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3	277.8	274.6	272.1
170°	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4	274.8	272.0	270.4
172.5°	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0	271.7	269.8	269.1
175°	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4	268.2	267.2	267.2
177.5°	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5	266.0	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	768.2	765.9	763.6	759.5	756.0	751.1	749.7	748.0	742.8	738.1	734.7
5°	815.1	806.4	793.8	782.2	772.9	760.3	753.0	745.5	734.6	724.9	716.9
7.5°	864.2	847.2	827.6	806.3	786.6	767.4	752.1	738.4	723.2	708.8	697.7
10°	903.2	878.6	851.2	821.6	796.4	771.8	751.2	733.2	713.7	696.7	682.6
12.5°	947.6	911.3	873.5	837.4	807.6	773.5	748.7	725.7	703.6	683.2	667.3
15°	1000.3	954.1	909.4	859.9	814.4	771.8	742.2	713.3	687.7	666.8	646.5
17.5°	1048.2	995.9	936.9	876.8	821.9	771.4	729.9	697.3	665.2	639.6	619.4
20°	1075.3	1015.8	949.0	886.6	826.0	769.6	724.2	685.1	650.5	623.4	600.7
22.5°	1098.8	1029.1	960.0	893.2	825.7	765.0	713.5	673.4	635.7	609.3	585.1
25°	1123.0	1039.6	970.3	892.0	816.5	753.8	696.0	650.5	612.9	581.9	557.0
27.5°	1143.9	1039.0	956.7	872.4	802.3	739.3	677.7	628.9	589.0	555.3	530.0
30°	1157.7	1040.4	942.5	859.1	788.4	723.4	663.5	614.4	572.5	538.2	514.4
32.5°	1166.4	1039.5	929.5	840.7	766.5	709.0	648.2	597.4	554.3	520.7	497.7
35°	1171.4	1033.1	907.2	802.5	731.0	675.0	624.2	571.5	526.3	494.9	468.9
37.5°	1161.3	1019.8	881.2	765.6	687.4	632.4	589.5	544.6	501.4	466.8	444.4
40°	1145.4	1011.2	860.9	739.7	657.3	604.3	567.9	523.8	481.2	448.4	427.4
42.5°	1115.1	993.5	838.8	710.8	626.1	573.1	539.5	502.8	462.4	431.6	410.7
45°	1041.1	955.2	805.4	667.5	580.1	525.3	495.7	468.9	432.4	402.5	384.5
47.5°	938.4	897.5	757.1	621.8	532.1	479.3	448.5	427.0	400.3	376.2	358.8
50°	867.1	850.2	724.5	590.6	499.9	448.4	418.8	399.3	380.1	355.9	340.1
52.5°	784.8	795.2	686.4	558.3	467.3	416.6	388.7	373.2	355.9	336.0	322.2
55°	668.9	706.8	620.6	504.0	418.8	370.4	344.0	330.3	320.2	305.4	293.5
57.5°	560.4	608.6	549.3	448.0	371.0	329.3	304.1	289.1	282.6	274.8	265.5
60°	496.0	543.7	498.5	410.5	338.9	299.3	276.9	264.3	257.8	252.3	244.4
62.5°	438.6	486.7	448.8	372.3	307.5	270.7	251.2	238.8	233.8	230.9	224.1
65°	359.6	401.1	375.8	313.0	262.4	230.0	212.3	203.6	198.9	197.8	193.5
67.5°	292.7	324.2	305.9	259.6	219.8	191.7	176.7	169.4	165.8	165.4	162.1
70°	248.7	278.3	264.3	222.3	188.0	166.1	153.1	146.6	144.4	144.0	142.2
72.5°	214.6	235.3	224.1	189.2	162.7	142.7	133.1	126.3	123.9	124.4	123.2
75°	158.8	174.4	167.9	143.6	122.3	109.3	101.4	97.1	94.9	96.0	94.5
77.5°	114.3	124.1	118.3	101.5	88.4	79.0	73.1	70.5	68.5	68.4	67.8
80°	86.2	92.1	88.8	78.7	67.9	59.9	55.2	53.4	52.3	52.0	51.7
82.5°	61.5	66.4	62.5	55.6	48.3	43.5	40.8	38.5	37.6	37.8	37.5
85°	31.0	32.9	31.4	27.1	24.2	22.1	20.5	19.5	18.8	19.1	18.4
87.5°	12.7	12.7	11.5	10.2	9.3	8.2	7.9	7.2	6.8	7.0	7.1
90°	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0	2.2	3.2	4.8
92.5°	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7	9.9	14.4	18.6
95°	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3	19.9	25.8	35.0
97.5°	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2	31.8	36.4	44.3
100°	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8	40.3	44.1	51.7
102.5°	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8	49.8	53.2	60.2
105°	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4	64.0	67.2	73.6
107.5°	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7	78.4	81.5	87.8
110°	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1	88.7	91.4	97.3



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5	98.2	100.9	106.8
115°	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2	112.4	115.6	120.9
117.5°	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9	126.3	129.0	133.9
120°	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4	135.0	137.6	143.0
122.5°	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5	143.1	145.8	151.6
125°	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3	154.3	157.5	163.4
127.5°	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1	163.7	167.8	173.7
130°	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8	169.4	174.2	180.6
132.5°	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0	174.1	179.4	187.1
135°	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6	181.7	187.7	195.7
137.5°	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6	188.9	194.7	203.3
140°	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4	194.1	199.4	208.0
142.5°	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5	198.8	204.6	212.4
145°	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8	206.4	211.3	219.3
147.5°	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2	214.1	219.0	225.9
150°	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8	219.3	223.7	230.6
152.5°	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4	224.5	228.8	235.0
155°	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8	232.8	236.0	241.4
157.5°	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4	239.9	242.4	247.2
160°	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6	244.6	246.8	251.1
162.5°	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5	248.5	250.2	253.6
165°	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3	253.7	254.9	257.5
167.5°	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7	258.1	258.5	260.6
170°	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3	260.2	260.7	262.3
172.5°	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0	262.3	262.5	263.6
175°	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0	264.5	264.0	265.0
177.5°	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0	265.6	265.1	265.6
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	732.6	730.7	727.7	723.4	719.9	714.4	714.4	715.3	715.3	715.0	714.4
5°	710.4	705.0	698.5	691.0	683.0	675.0	673.6	670.7	668.5	667.1	665.3
7.5°	686.9	677.4	667.9	657.3	647.6	639.6	634.0	629.4	626.4	623.3	620.9
10°	671.1	659.1	648.0	636.8	624.5	614.7	608.6	604.3	601.1	598.1	596.7
12.5°	652.3	638.7	626.3	615.7	602.3	592.2	586.4	584.4	580.5	574.5	571.3
15°	624.9	612.3	597.5	581.2	574.7	562.4	555.5	552.3	550.2	545.4	544.0
17.5°	601.4	584.8	568.3	556.1	544.0	534.1	530.3	526.2	523.4	519.5	518.4
20°	582.7	567.9	552.7	539.7	527.1	516.2	512.9	510.1	507.2	505.4	504.0
22.5°	563.5	548.7	536.2	524.1	510.6	503.5	499.9	496.8	494.7	493.5	492.1
25°	536.8	523.8	509.7	498.9	488.0	483.3	481.2	479.4	478.0	476.2	475.8
27.5°	512.8	498.7	487.3	477.1	469.4	465.4	463.4	462.5	462.8	463.4	463.8
30°	494.9	481.9	472.5	463.8	456.7	453.1	452.7	452.7	454.1	454.5	455.2
32.5°	478.4	467.8	458.4	450.0	444.5	442.1	443.5	443.5	444.6	445.5	446.9
35°	454.5	445.1	437.9	430.6	425.9	427.1	427.7	428.5	430.3	432.4	433.9
37.5°	431.6	423.5	415.9	410.3	408.1	410.1	411.8	413.3	415.5	417.1	418.5
40°	415.1	409.0	401.8	396.7	397.5	398.5	400.0	401.8	403.6	404.6	406.1
42.5°	399.8	393.4	388.0	383.7	384.7	386.2	387.0	388.0	390.0	392.0	392.9
45°	376.5	371.5	366.4	363.9	364.6	365.3	366.1	367.1	368.9	370.4	370.7
47.5°	350.3	346.8	343.4	340.9	342.0	341.8	342.7	345.1	345.6	346.5	348.5
50°	333.6	330.3	326.3	325.6	325.6	325.6	325.9	328.9	328.9	330.3	331.8
52.5°	315.1	313.0	310.5	309.2	308.6	308.6	310.1	311.5	312.1	314.1	315.6
55°	287.7	285.5	283.4	282.3	281.5	282.3	285.2	285.9	287.7	288.8	289.8
57.5°	259.2	257.5	255.8	255.2	255.1	256.0	257.6	259.8	260.2	263.5	265.1
60°	240.4	237.9	236.5	236.5	235.7	238.9	238.3	241.9	242.6	244.8	247.3
62.5°	221.0	217.6	217.1	217.1	218.1	219.0	220.1	221.7	223.6	226.3	228.2
65°	189.9	188.0	190.6	190.2	189.5	191.7	191.7	193.5	195.7	198.2	202.2
67.5°	160.3	159.4	159.7	159.7	160.7	161.9	163.0	164.6	167.1	169.8	172.4
70°	140.4	141.5	139.7	141.2	142.2	142.6	143.3	145.4	148.4	150.1	153.1
72.5°	121.1	121.0	121.2	121.8	122.9	123.6	124.2	126.7	129.9	131.4	133.7
75°	93.1	92.7	93.9	93.9	95.7	96.4	97.1	98.2	101.0	103.2	105.1
77.5°	68.1	68.4	68.2	69.5	69.0	69.1	71.4	72.4	72.7	77.0	77.9
80°	51.3	52.0	52.3	52.7	53.1	52.3	54.9	56.0	56.0	58.4	60.3
82.5°	36.9	37.2	38.2	38.5	38.6	39.3	39.6	40.3	41.2	42.3	44.7
85°	18.4	19.5	19.9	19.5	19.9	19.1	20.2	20.5	20.9	20.9	20.9
87.5°	7.0	7.4	7.5	8.1	8.1	8.8	8.7	8.2	8.3	9.2	8.3
90°	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5	13.9	14.5	15.6
92.5°	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2	35.9	31.8	28.9
95°	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5	131.2	102.6	83.3
97.5°	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5	386.4	317.1	252.8
100°	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9	590.3	527.4	451.0
102.5°	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2	682.8	646.1	597.7
105°	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9	752.6	762.9	748.9
107.5°	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5	743.9	790.9	810.0
110°	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0	715.0	782.8	820.4



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1	677.1	753.1	801.4
115°	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1	616.6	695.7	754.2
117.5°	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7	565.4	636.4	695.9
120°	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5	537.1	601.5	655.9
122.5°	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6	514.3	574.0	624.4
125°	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3	486.0	537.6	580.6
127.5°	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9	461.2	507.7	546.9
130°	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3	445.6	489.2	525.8
132.5°	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5	431.0	471.6	506.4
135°	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0	410.2	445.2	475.8
137.5°	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8	390.1	420.2	446.8
140°	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1	378.4	404.3	427.3
142.5°	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7	367.3	389.6	409.7
145°	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9	352.7	369.9	385.5
147.5°	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7	341.8	355.7	366.7
150°	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5	334.9	346.2	356.5
152.5°	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8	328.5	338.5	346.9
155°	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8	319.3	327.4	333.8
157.5°	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2	310.4	316.7	321.7
160°	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9	304.8	310.2	314.0
162.5°	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8	298.8	303.8	307.1
165°	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1	290.3	294.1	296.7
167.5°	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3	283.7	285.9	287.9
170°	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4	279.0	281.2	282.2
172.5°	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0	275.1	276.8	277.5
175°	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4	269.8	271.0	271.0
177.5°	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5	266.8	267.3	267.3
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	712.5	712.2	714.2	712.8	714.2	712.2	712.5	714.4	715.0	715.3	715.3
5°	663.2	664.2	660.6	660.6	660.6	664.2	663.2	665.3	667.1	668.5	670.7
7.5°	619.3	617.6	617.8	615.9	617.8	617.6	619.3	620.9	623.3	626.4	629.4
10°	592.4	590.2	589.5	589.8	589.5	590.2	592.4	596.7	598.1	601.1	604.3
12.5°	570.1	569.7	565.0	565.1	565.0	569.7	570.1	571.3	574.5	580.5	584.4
15°	544.0	537.2	536.4	538.6	536.4	537.2	544.0	544.0	545.4	550.2	552.3
17.5°	517.8	514.2	514.4	513.3	514.4	514.2	517.8	518.4	519.5	523.4	526.2
20°	504.0	501.8	501.4	498.9	501.4	501.8	504.0	504.0	505.4	507.2	510.1
22.5°	491.3	490.5	490.7	488.0	490.7	490.5	491.3	492.1	493.5	494.7	496.8
25°	475.4	477.2	475.8	475.8	475.8	477.2	475.4	475.8	476.2	478.0	479.4
27.5°	464.8	464.7	463.9	463.9	463.9	464.7	464.8	463.8	463.4	462.8	462.5
30°	456.7	456.3	457.0	457.0	457.0	456.3	456.7	455.2	454.5	454.1	452.7
32.5°	448.6	449.0	449.2	449.5	449.2	449.0	448.6	446.9	445.5	444.6	443.5
35°	436.1	436.4	437.5	436.8	437.5	436.4	436.1	433.9	432.4	430.3	428.5
37.5°	419.1	420.8	420.5	421.0	420.5	420.8	419.1	418.5	417.1	415.5	413.3
40°	406.5	407.6	407.2	407.2	407.2	407.6	406.5	406.1	404.6	403.6	401.8
42.5°	393.5	394.3	393.3	392.8	393.3	394.3	393.5	392.9	392.0	390.0	388.0
45°	372.2	371.5	372.6	371.1	372.6	371.5	372.2	370.7	370.4	368.9	367.1
47.5°	348.4	349.1	349.4	350.4	349.4	349.1	348.4	348.5	346.5	345.6	345.1
50°	332.4	334.6	334.6	334.3	334.6	334.6	332.4	331.8	330.3	328.9	328.9
52.5°	316.9	317.9	319.3	319.2	319.3	317.9	316.9	315.6	314.1	312.1	311.5
55°	292.8	293.5	294.2	294.5	294.2	293.5	292.8	289.8	288.8	287.7	285.9
57.5°	267.8	267.5	269.2	269.8	269.2	267.5	267.8	265.1	263.5	260.2	259.8
60°	250.2	250.2	253.1	254.1	253.1	250.2	250.2	247.3	244.8	242.6	241.9
62.5°	231.4	232.5	235.4	233.9	235.4	232.5	231.4	228.2	226.3	223.6	221.7
65°	204.0	206.9	206.5	207.9	206.5	206.9	204.0	202.2	198.2	195.7	193.5
67.5°	175.3	177.1	179.7	179.9	179.7	177.1	175.3	172.4	169.8	167.1	164.6
70°	156.0	157.8	159.2	160.2	159.2	157.8	156.0	153.1	150.1	148.4	145.4
72.5°	137.1	138.1	141.6	140.1	141.6	138.1	137.1	133.7	131.4	129.9	126.7
75°	107.5	110.1	112.3	111.2	112.3	110.1	107.5	105.1	103.2	101.0	98.2
77.5°	79.6	82.1	83.1	82.2	83.1	82.1	79.6	77.9	77.0	72.7	72.4
80°	62.8	62.5	64.7	64.3	64.7	62.5	62.8	60.3	58.4	56.0	56.0
82.5°	46.1	45.7	46.8	46.9	46.8	45.7	46.1	44.7	42.3	41.2	40.3
85°	22.3	23.5	22.1	21.7	22.1	23.5	22.3	20.9	20.9	20.9	20.5
87.5°	8.2	8.3	8.1	7.7	8.1	8.3	8.2	8.3	9.2	8.3	8.2
90°	15.1	15.6	16.1	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5
92.5°	28.0	26.3	26.9	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2
95°	73.1	68.2	64.5	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5
97.5°	213.1	188.9	174.4	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5
100°	396.7	357.5	336.6	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9
102.5°	555.4	524.3	506.8	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2
105°	724.2	703.7	686.5	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9
107.5°	810.5	803.6	797.8	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5
110°	835.5	839.7	838.7	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	829.0	842.4	846.4	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1
115°	794.6	818.2	829.0	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1
117.5°	737.9	765.0	780.5	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7
120°	698.3	728.5	741.3	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5
122.5°	662.2	689.3	703.5	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6
125°	615.0	638.7	652.1	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3
127.5°	577.5	597.7	609.8	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9
130°	554.3	573.6	584.9	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3
132.5°	533.2	552.5	562.5	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5
135°	502.1	518.2	527.9	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0
137.5°	468.9	485.2	493.4	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8
140°	447.8	462.9	471.5	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1
142.5°	427.2	440.5	448.3	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7
145°	398.9	410.2	414.5	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9
147.5°	376.9	384.6	388.7	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7
150°	364.5	370.4	373.6	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5
152.5°	353.3	358.8	360.7	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8
155°	338.7	343.0	344.0	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8
157.5°	325.9	329.1	330.0	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2
160°	317.7	320.9	320.9	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9
162.5°	309.5	312.4	312.4	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8
165°	298.9	301.0	300.5	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1
167.5°	288.8	290.3	289.7	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3
170°	282.8	283.9	283.3	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4
172.5°	277.6	278.7	277.8	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0
175°	271.0	271.5	271.0	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4
177.5°	266.8	267.3	266.5	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	714.4	714.4	719.9	723.4	727.7	730.7	732.6	734.7	738.1	742.8	748.0
5°	673.6	675.0	683.0	691.0	698.5	705.0	710.4	716.9	724.9	734.6	745.5
7.5°	634.0	639.6	647.6	657.3	667.9	677.4	686.9	697.7	708.8	723.2	738.4
10°	608.6	614.7	624.5	636.8	648.0	659.1	671.1	682.6	696.7	713.7	733.2
12.5°	586.4	592.2	602.3	615.7	626.3	638.7	652.3	667.3	683.2	703.6	725.7
15°	555.5	562.4	574.7	581.2	597.5	612.3	624.9	646.5	666.8	687.7	713.3
17.5°	530.3	534.1	544.0	556.1	568.3	584.8	601.4	619.4	639.6	665.2	697.3
20°	512.9	516.2	527.1	539.7	552.7	567.9	582.7	600.7	623.4	650.5	685.1
22.5°	499.9	503.5	510.6	524.1	536.2	548.7	563.5	585.1	609.3	635.7	673.4
25°	481.2	483.3	488.0	498.9	509.7	523.8	536.8	557.0	581.9	612.9	650.5
27.5°	463.4	465.4	469.4	477.1	487.3	498.7	512.8	530.0	555.3	589.0	628.9
30°	452.7	453.1	456.7	463.8	472.5	481.9	494.9	514.4	538.2	572.5	614.4
32.5°	443.5	442.1	444.5	450.0	458.4	467.8	478.4	497.7	520.7	554.3	597.4
35°	427.7	427.1	425.9	430.6	437.9	445.1	454.5	468.9	494.9	526.3	571.5
37.5°	411.8	410.1	408.1	410.3	415.9	423.5	431.6	444.4	466.8	501.4	544.6
40°	400.0	398.5	397.5	396.7	401.8	409.0	415.1	427.4	448.4	481.2	523.8
42.5°	387.0	386.2	384.7	383.7	388.0	393.4	399.8	410.7	431.6	462.4	502.8
45°	366.1	365.3	364.6	363.9	366.4	371.5	376.5	384.5	402.5	432.4	468.9
47.5°	342.7	341.8	342.0	340.9	343.4	346.8	350.3	358.8	376.2	400.3	427.0
50°	325.9	325.6	325.6	325.6	326.3	330.3	333.6	340.1	355.9	380.1	399.3
52.5°	310.1	308.6	308.6	309.2	310.5	313.0	315.1	322.2	336.0	355.9	373.2
55°	285.2	282.3	281.5	282.3	283.4	285.5	287.7	293.5	305.4	320.2	330.3
57.5°	257.6	256.0	255.1	255.2	255.8	257.5	259.2	265.5	274.8	282.6	289.1
60°	238.3	238.9	235.7	236.5	236.5	237.9	240.4	244.4	252.3	257.8	264.3
62.5°	220.1	219.0	218.1	217.1	217.1	217.6	221.0	224.1	230.9	233.8	238.8
65°	191.7	191.7	189.5	190.2	190.6	188.0	189.9	193.5	197.8	198.9	203.6
67.5°	163.0	161.9	160.7	159.7	159.7	159.4	160.3	162.1	165.4	165.8	169.4
70°	143.3	142.6	142.2	141.2	139.7	141.5	140.4	142.2	144.0	144.4	146.6
72.5°	124.2	123.6	122.9	121.8	121.2	121.0	121.1	123.2	124.4	123.9	126.3
75°	97.1	96.4	95.7	93.9	93.9	92.7	93.1	94.5	96.0	94.9	97.1
77.5°	71.4	69.1	69.0	69.5	68.2	68.4	68.1	67.8	68.4	68.5	70.5
80°	54.9	52.3	53.1	52.7	52.3	52.0	51.3	51.7	52.0	52.3	53.4
82.5°	39.6	39.3	38.6	38.5	38.2	37.2	36.9	37.5	37.8	37.6	38.5
85°	20.2	19.1	19.9	19.5	19.9	19.5	18.4	18.4	19.1	18.8	19.5
87.5°	8.7	8.8	8.1	8.1	7.5	7.4	7.0	7.1	7.0	6.8	7.2
90°	12.9	13.5	11.8	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0
92.5°	62.4	82.7	91.0	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7
95°	258.5	318.8	283.9	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3
97.5°	528.6	494.1	361.7	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2
100°	615.0	509.1	344.0	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8
102.5°	619.3	481.2	318.3	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8
105°	586.5	432.3	286.5	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4
107.5°	529.1	389.0	266.4	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7
110°	492.9	364.5	258.5	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	348.2	254.3	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5
115°	423.7	330.6	252.7	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2
117.5°	400.8	320.3	253.6	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9
120°	388.7	315.6	255.3	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4
122.5°	378.8	312.5	258.4	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5
125°	366.1	308.6	262.9	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3
127.5°	355.0	306.6	268.1	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1
130°	348.9	305.4	271.5	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8
132.5°	343.3	304.9	274.1	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0
135°	336.0	304.3	278.0	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6
137.5°	329.7	303.1	280.5	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6
140°	325.7	302.7	282.2	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4
142.5°	322.3	301.8	283.5	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5
145°	317.7	300.5	284.4	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8
147.5°	313.2	298.5	284.4	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2
150°	310.2	296.7	284.4	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8
152.5°	306.8	294.6	283.1	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4
155°	301.6	290.9	281.7	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8
157.5°	295.8	287.5	279.8	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4
160°	291.9	284.9	279.0	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6
162.5°	288.0	282.4	277.3	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5
165°	282.8	278.5	274.8	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3
167.5°	277.8	274.6	272.1	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7
170°	274.8	272.0	270.4	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3
172.5°	271.7	269.8	269.1	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0
175°	268.2	267.2	267.2	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0
177.5°	266.0	265.6	266.0	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	749.7	751.1	756.0	759.5	763.6	765.9	768.2	770.0	772.2	772.8	781.2
5°	753.0	760.3	772.9	782.2	793.8	806.4	815.1	819.1	829.5	838.2	855.5
7.5°	752.1	767.4	786.6	806.3	827.6	847.2	864.2	884.4	898.8	920.4	941.7
10°	751.2	771.8	796.4	821.6	851.2	878.6	903.2	930.7	953.4	983.4	1009.0
12.5°	748.7	773.5	807.6	837.4	873.5	911.3	947.6	982.9	1003.1	1052.9	1076.6
15°	742.2	771.8	814.4	859.9	909.4	954.1	1000.3	1037.1	1096.6	1140.4	1168.2
17.5°	729.9	771.4	821.9	876.8	936.9	995.9	1048.2	1104.1	1167.3	1220.1	1276.5
20°	724.2	769.6	826.0	886.6	949.0	1015.8	1075.3	1142.6	1211.4	1263.5	1335.7
22.5°	713.5	765.0	825.7	893.2	960.0	1029.1	1098.8	1166.5	1246.1	1317.8	1386.5
25°	696.0	753.8	816.5	892.0	970.3	1039.6	1123.0	1213.0	1296.0	1388.0	1456.6
27.5°	677.7	739.3	802.3	872.4	956.7	1039.0	1143.9	1245.4	1346.9	1426.4	1477.2
30°	663.5	723.4	788.4	859.1	942.5	1040.4	1157.7	1268.5	1367.4	1435.7	1464.1
32.5°	648.2	709.0	766.5	840.7	929.5	1039.5	1166.4	1282.0	1368.6	1414.0	1408.4
35°	624.2	675.0	731.0	802.5	907.2	1033.1	1171.4	1283.3	1336.3	1326.6	1253.0
37.5°	589.5	632.4	687.4	765.6	881.2	1019.8	1161.3	1245.3	1241.8	1162.4	1055.7
40°	567.9	604.3	657.3	739.7	860.9	1011.2	1145.4	1200.0	1153.8	1042.9	915.1
42.5°	539.5	573.1	626.1	710.8	838.8	993.5	1115.1	1130.9	1040.5	912.9	795.9
45°	495.7	525.3	580.1	667.5	805.4	955.2	1041.1	1002.5	880.8	749.0	659.9
47.5°	448.5	479.3	532.1	621.8	757.1	897.5	938.4	856.3	731.3	624.5	542.6
50°	418.8	448.4	499.9	590.6	724.5	850.2	867.1	761.0	646.2	552.3	485.1
52.5°	388.7	416.6	467.3	558.3	686.4	795.2	784.8	676.7	571.1	491.1	438.4
55°	344.0	370.4	418.8	504.0	620.6	706.8	668.9	565.7	478.3	416.2	376.2
57.5°	304.1	329.3	371.0	448.0	549.3	608.6	560.4	473.4	404.0	356.2	326.3
60°	276.9	299.3	338.9	410.5	498.5	543.7	496.0	419.1	360.6	322.3	295.7
62.5°	251.2	270.7	307.5	372.3	448.8	486.7	438.6	373.4	323.7	289.7	267.0
65°	212.3	230.0	262.4	313.0	375.8	401.1	359.6	306.8	268.2	243.0	227.8
67.5°	176.7	191.7	219.8	259.6	305.9	324.2	292.7	251.8	222.7	202.5	190.4
70°	153.1	166.1	188.0	222.3	264.3	278.3	248.7	215.2	193.9	177.6	166.5
72.5°	133.1	142.7	162.7	189.2	224.1	235.3	214.6	185.1	165.2	153.1	144.2
75°	101.4	109.3	122.3	143.6	167.9	174.4	158.8	140.4	127.1	118.4	111.5
77.5°	73.1	79.0	88.4	101.5	118.3	124.1	114.3	102.0	92.3	86.4	82.6
80°	55.2	59.9	67.9	78.7	88.8	92.1	86.2	76.9	70.0	66.8	63.5
82.5°	40.8	43.5	48.3	55.6	62.5	66.4	61.5	55.8	52.1	49.2	48.0
85°	20.5	22.1	24.2	27.1	31.4	32.9	31.0	29.6	27.4	25.6	25.6
87.5°	7.9	8.2	9.3	10.2	11.5	12.7	12.7	12.4	12.5	12.1	12.0
90°	2.2	3.2	4.8	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5
92.5°	9.9	14.4	18.6	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2
95°	19.9	25.8	35.0	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5
97.5°	31.8	36.4	44.3	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5
100°	40.3	44.1	51.7	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9
102.5°	49.8	53.2	60.2	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2
105°	64.0	67.2	73.6	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9
107.5°	78.4	81.5	87.8	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5
110°	88.7	91.4	97.3	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	100.9	106.8	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1
115°	112.4	115.6	120.9	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1
117.5°	126.3	129.0	133.9	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7
120°	135.0	137.6	143.0	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5
122.5°	143.1	145.8	151.6	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6
125°	154.3	157.5	163.4	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3
127.5°	163.7	167.8	173.7	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9
130°	169.4	174.2	180.6	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3
132.5°	174.1	179.4	187.1	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5
135°	181.7	187.7	195.7	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0
137.5°	188.9	194.7	203.3	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8
140°	194.1	199.4	208.0	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1
142.5°	198.8	204.6	212.4	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7
145°	206.4	211.3	219.3	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9
147.5°	214.1	219.0	225.9	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7
150°	219.3	223.7	230.6	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5
152.5°	224.5	228.8	235.0	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8
155°	232.8	236.0	241.4	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8
157.5°	239.9	242.4	247.2	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2
160°	244.6	246.8	251.1	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9
162.5°	248.5	250.2	253.6	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8
165°	253.7	254.9	257.5	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1
167.5°	258.1	258.5	260.6	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3
170°	260.2	260.7	262.3	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4
172.5°	262.3	262.5	263.6	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0
175°	264.5	264.0	265.0	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4
177.5°	265.6	265.1	265.6	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	784.1	784.4	787.5	789.9	788.7	790.1	790.7
5°	856.6	869.6	876.5	881.6	881.9	882.2	885.1
7.5°	959.5	973.5	983.6	999.1	1003.7	1009.0	1007.5
10°	1034.6	1055.2	1072.9	1082.2	1092.3	1107.1	1095.2
12.5°	1104.8	1141.2	1168.2	1182.7	1192.3	1195.2	1189.4
15°	1220.5	1268.2	1293.8	1293.1	1325.6	1339.6	1317.6
17.5°	1326.6	1370.6	1405.8	1423.9	1451.0	1457.0	1454.2
20°	1391.6	1439.6	1467.1	1498.1	1512.2	1524.8	1527.0
22.5°	1447.7	1490.7	1520.2	1546.1	1557.8	1563.8	1567.4
25°	1505.3	1539.3	1557.0	1565.9	1569.2	1568.5	1563.8
27.5°	1501.4	1503.9	1484.5	1465.4	1448.2	1428.9	1422.3
30°	1462.4	1432.0	1377.9	1347.2	1302.1	1266.3	1280.8
32.5°	1359.8	1299.5	1238.7	1171.6	1116.1	1100.3	1084.4
35°	1160.6	1054.4	992.4	920.2	891.3	862.4	842.5
37.5°	939.0	856.9	783.2	735.9	707.0	688.8	678.9
40°	811.9	737.8	677.2	638.9	616.9	596.3	593.4
42.5°	710.5	641.7	596.1	565.6	544.4	535.7	529.3
45°	581.9	533.9	503.2	481.5	467.5	462.0	454.9
47.5°	492.6	458.6	435.5	420.8	410.2	406.1	405.6
50°	442.6	414.4	397.5	385.9	377.6	376.2	370.4
52.5°	405.0	380.6	367.4	357.3	351.3	347.2	345.5
55°	351.6	335.4	323.5	317.6	313.0	309.0	309.0
57.5°	307.6	294.1	286.2	281.3	279.8	277.0	275.2
60°	280.5	268.9	262.8	258.4	255.6	255.9	252.7
62.5°	253.9	246.4	240.5	236.2	232.8	232.8	233.1
65°	216.2	210.5	206.1	204.7	202.6	200.0	200.7
67.5°	183.2	177.9	174.5	172.0	171.3	169.8	172.0
70°	159.6	155.6	153.1	150.9	150.1	150.5	152.3
72.5°	137.9	135.1	133.5	132.4	130.8	130.9	132.1
75°	108.3	106.1	104.7	103.6	103.2	103.2	103.2
77.5°	79.6	79.1	78.4	76.8	76.9	77.3	77.4
80°	62.8	61.7	61.4	60.6	59.6	58.8	60.6
82.5°	46.9	45.8	45.5	45.3	43.6	43.5	45.1
85°	25.3	24.2	24.5	24.2	24.2	23.8	23.8
87.5°	11.8	11.6	11.5	11.7	11.5	11.3	11.8
90°	13.9	14.5	15.6	15.1	15.6	16.1	15.6
92.5°	35.9	31.8	28.9	28.0	26.3	26.9	25.9
95°	131.2	102.6	83.3	73.1	68.2	64.5	62.4
97.5°	386.4	317.1	252.8	213.1	188.9	174.4	169.8
100°	590.3	527.4	451.0	396.7	357.5	336.6	337.1
102.5°	682.8	646.1	597.7	555.4	524.3	506.8	494.5
105°	752.6	762.9	748.9	724.2	703.7	686.5	683.8
107.5°	743.9	790.9	810.0	810.5	803.6	797.8	792.9
110°	715.0	782.8	820.4	835.5	839.7	838.7	837.5



TEST NUMBER: P331921-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.1	753.1	801.4	829.0	842.4	846.4	846.6
115°	616.6	695.7	754.2	794.6	818.2	829.0	831.7
117.5°	565.4	636.4	695.9	737.9	765.0	780.5	784.1
120°	537.1	601.5	655.9	698.3	728.5	741.3	744.6
122.5°	514.3	574.0	624.4	662.2	689.3	703.5	707.6
125°	486.0	537.6	580.6	615.0	638.7	652.1	655.9
127.5°	461.2	507.7	546.9	577.5	597.7	609.8	613.3
130°	445.6	489.2	525.8	554.3	573.6	584.9	589.2
132.5°	431.0	471.6	506.4	533.2	552.5	562.5	565.5
135°	410.2	445.2	475.8	502.1	518.2	527.9	531.7
137.5°	390.1	420.2	446.8	468.9	485.2	493.4	495.9
140°	378.4	404.3	427.3	447.8	462.9	471.5	470.9
142.5°	367.3	389.6	409.7	427.2	440.5	448.3	447.7
145°	352.7	369.9	385.5	398.9	410.2	414.5	415.6
147.5°	341.8	355.7	366.7	376.9	384.6	388.7	389.1
150°	334.9	346.2	356.5	364.5	370.4	373.6	373.6
152.5°	328.5	338.5	346.9	353.3	358.8	360.7	360.7
155°	319.3	327.4	333.8	338.7	343.0	344.0	344.6
157.5°	310.4	316.7	321.7	325.9	329.1	330.0	329.9
160°	304.8	310.2	314.0	317.7	320.9	320.9	320.4
162.5°	298.8	303.8	307.1	309.5	312.4	312.4	311.8
165°	290.3	294.1	296.7	298.9	301.0	300.5	300.5
167.5°	283.7	285.9	287.9	288.8	290.3	289.7	289.7
170°	279.0	281.2	282.2	282.8	283.9	283.3	283.3
172.5°	275.1	276.8	277.5	277.6	278.7	277.8	277.3
175°	269.8	271.0	271.0	271.0	271.5	271.0	270.4
177.5°	266.8	267.3	267.3	266.8	267.3	266.5	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6

(END OF REPORT)