

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: P331921-940

Luminaire Tested: **S123DIP-S560D585U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331921-940  
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-S560D585U940-4F0-1E-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: 4019.8 lumens  
Efficiency: N/A  
Efficacy: 122.6 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: General Diffuse

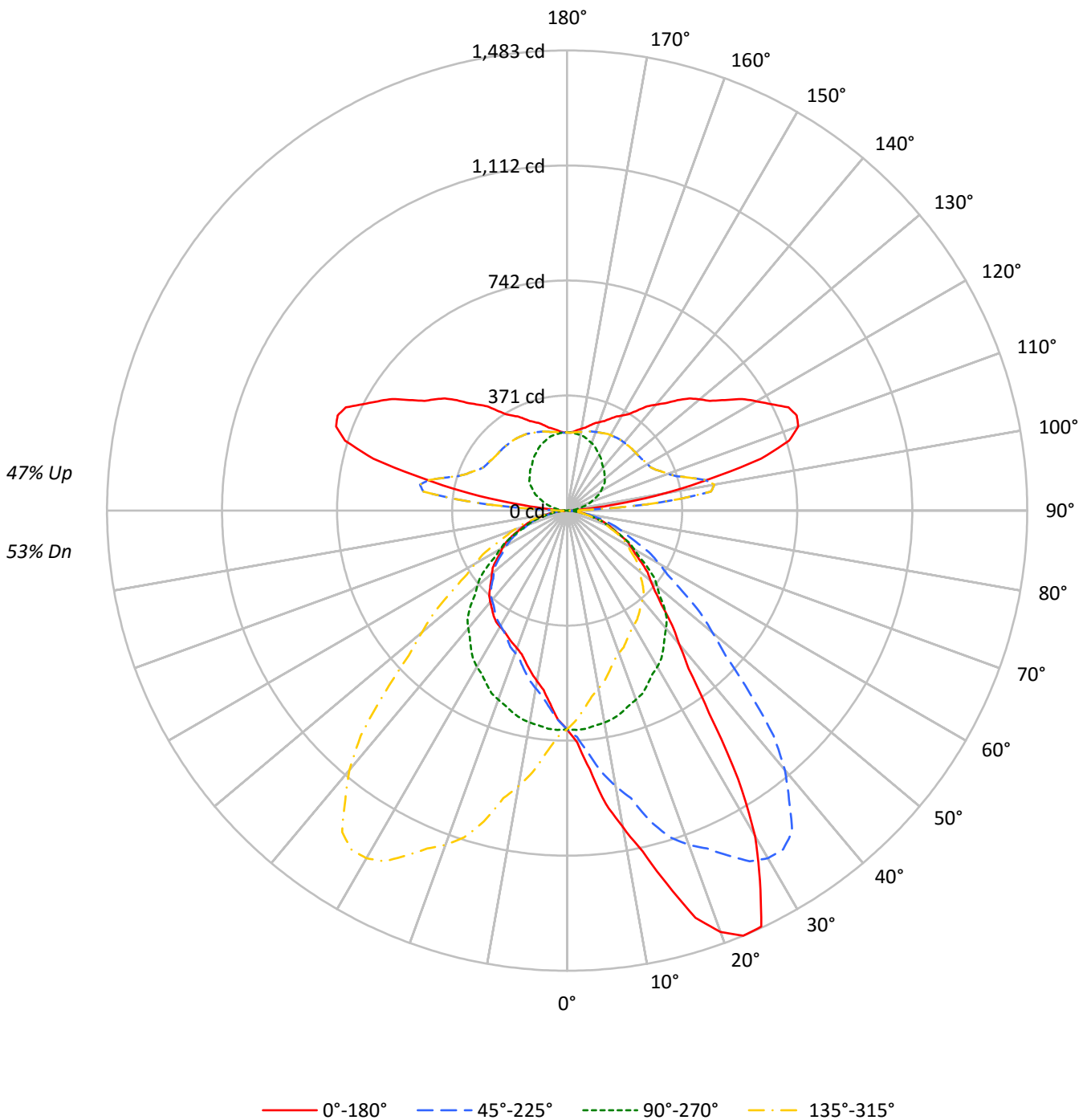
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-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°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	1.7
10°-20°	222.7	5.5
20°-30°	373.7	9.3
30°-40°	423.1	10.5
40°-50°	379.5	9.4
50°-60°	306.2	7.6
60°-70°	213.4	5.3
70°-80°	112.2	2.8
80°-90°	29.4	0.7
90°-100°	139.8	3.5
100°-110°	395.9	9.8
110°-120°	389.5	9.7
120°-130°	310.7	7.7
130°-140°	244.9	6.1
140°-150°	182.8	4.5
150°-160°	127.4	3.2
160°-170°	74.9	1.9
170°-180°	24.4	0.6
0°-30°	665.8	16.6
0°-40°	1088.9	27.1
0°-60°	1774.6	44.1
0°-90°	2129.5	53.0
90°-120°	925.2	23.0
90°-150°	1663.7	41.4
90°-180°	1890.0	47.0
0°-180°	4019.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	27
90°	15	1	15	1	15	9
95°	59	17	59	17	59	106
105°	647	59	647	59	647	638
115°	787	104	787	104	787	764
125°	620	145	620	145	620	562
135°	503	170	503	170	503	390
145°	393	194	393	194	393	250
155°	326	220	326	220	326	152
165°	284	241	284	241	284	81
175°	256	251	256	251	256	25
180°	251	251	251	251	251	



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	11.1	10.7	10.9	11.1	10.9	11.0	11.1	11.3	11.4	11.9	11.8
90°	14.7	15.2	14.7	14.3	14.7	13.7	13.2	12.8	12.2	12.8	11.1
92.5°	24.5	25.4	24.9	26.5	27.4	30.1	34.0	42.8	59.0	78.2	86.1
95°	59.0	61.0	64.6	69.2	78.8	97.1	124.1	183.1	244.6	301.6	268.6
97.5°	160.6	165.0	178.7	201.6	239.2	300.0	365.6	456.5	500.1	467.4	342.1
100°	318.9	318.4	338.2	375.3	426.7	498.9	558.5	599.7	581.8	481.6	325.5
102.5°	467.8	479.5	496.1	525.5	565.4	611.3	646.0	647.3	585.9	455.2	301.1
105°	646.9	649.5	665.8	685.1	708.5	721.8	712.0	661.2	554.9	408.9	271.1
107.5°	750.1	754.7	760.3	766.8	766.3	748.2	703.7	621.1	500.6	368.0	252.0
110°	792.4	793.4	794.4	790.4	776.1	740.6	676.5	582.8	466.4	344.8	244.6



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	800.9	800.8	796.9	784.3	758.2	712.5	640.6	545.0	436.7	329.4	240.6
115°	786.8	784.3	774.1	751.7	713.5	658.2	583.4	494.9	400.8	312.8	239.1
117.5°	741.8	738.4	723.7	698.1	658.4	602.1	534.9	458.5	379.2	303.0	240.0
120°	704.5	701.3	689.2	660.7	620.5	569.1	508.1	439.4	367.7	298.5	241.6
122.5°	669.4	665.6	652.1	626.5	590.8	543.1	486.5	424.4	358.4	295.7	244.4
125°	620.5	617.0	604.2	581.8	549.3	508.6	459.8	404.3	346.3	291.9	248.7
127.5°	580.2	576.9	565.4	546.4	517.4	480.4	436.3	386.8	335.8	290.1	253.6
130°	557.4	553.4	542.7	524.4	497.4	462.8	421.6	375.9	330.1	288.9	256.8
132.5°	535.0	532.2	522.7	504.4	479.1	446.1	407.8	365.7	324.8	288.5	259.3
135°	503.0	499.4	490.3	475.0	450.1	421.2	388.1	352.0	317.9	287.8	263.0
137.5°	469.1	466.8	459.1	443.6	422.7	397.5	369.1	339.5	311.9	286.8	265.4
140°	445.5	446.0	437.9	423.7	404.3	382.5	358.0	332.2	308.2	286.3	267.0
142.5°	423.6	424.1	416.8	404.1	387.6	368.6	347.5	325.2	305.0	285.5	268.2
145°	393.2	392.2	388.1	377.4	364.7	349.9	333.7	316.8	300.6	284.3	269.0
147.5°	368.1	367.7	363.8	356.6	347.0	336.5	323.3	310.0	296.3	282.4	269.0
150°	353.5	353.5	350.4	344.8	337.2	327.5	316.8	305.1	293.5	280.7	269.0
152.5°	341.3	341.3	339.5	334.2	328.2	320.2	310.8	300.7	290.3	278.7	267.9
155°	326.0	325.5	324.5	320.4	315.8	309.8	302.1	294.0	285.3	275.2	266.5
157.5°	312.1	312.2	311.4	308.4	304.3	299.6	293.6	286.9	279.8	272.0	264.7
160°	303.1	303.6	303.6	300.6	297.0	293.5	288.4	282.8	276.2	269.6	263.9
162.5°	295.0	295.5	295.5	292.8	290.5	287.4	282.7	277.9	272.5	267.2	262.3
165°	284.3	284.3	284.8	282.8	280.7	278.2	274.6	271.6	267.5	263.5	259.9
167.5°	274.1	274.1	274.6	273.2	272.3	270.5	268.4	266.1	262.8	259.8	257.4
170°	268.0	268.0	268.6	267.5	267.0	266.0	263.9	262.4	259.9	257.3	255.8
172.5°	262.3	262.8	263.7	262.6	262.5	261.9	260.3	259.2	257.1	255.3	254.6
175°	255.8	256.4	256.8	256.4	256.4	256.4	255.3	254.9	253.8	252.8	252.8
177.5°	252.1	252.1	252.9	252.4	252.9	252.9	252.4	252.1	251.6	251.3	251.6
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	12.0	12.0	10.9	9.6	8.8	7.8	7.5	6.8	6.4	6.6	6.7
90°	9.6	8.1	6.6	5.6	4.5	3.0	2.1	1.0	2.1	3.0	4.5
92.5°	64.6	42.7	29.4	21.8	17.6	13.6	9.4	6.3	9.4	13.6	17.6
95°	185.1	109.3	66.1	46.3	33.1	24.4	18.8	17.3	18.8	24.4	33.1
97.5°	203.1	117.7	76.4	54.9	41.9	34.4	30.1	29.5	30.1	34.4	41.9
100°	191.7	116.5	80.9	61.0	48.9	41.7	38.2	37.6	38.2	41.7	48.9
102.5°	182.0	118.1	86.1	67.9	57.0	50.3	47.1	46.2	47.1	50.3	57.0
105°	175.0	122.6	95.1	79.4	69.6	63.6	60.5	59.0	60.5	63.6	69.6
107.5°	174.4	130.9	106.8	92.2	83.1	77.1	74.2	72.6	74.2	77.1	83.1
110°	176.5	137.9	114.9	100.7	92.0	86.5	83.9	82.4	83.9	86.5	92.0





TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.6	144.7	123.5	109.7	101.0	95.4	92.9	91.3	92.9	95.4	101.0
115°	187.2	156.1	136.8	123.1	114.4	109.3	106.3	104.2	106.3	109.3	114.4
117.5°	195.9	168.3	149.1	136.4	126.7	122.1	119.5	117.2	119.5	122.1	126.7
120°	202.4	175.9	157.7	145.0	135.3	130.2	127.7	126.2	127.7	130.2	135.3
122.5°	208.6	184.1	166.2	152.7	143.4	137.9	135.4	133.8	135.4	137.9	143.4
125°	218.2	195.8	178.0	164.3	154.6	149.0	146.0	145.0	146.0	149.0	154.6
127.5°	226.1	206.0	188.8	175.0	164.3	158.7	154.9	153.4	154.9	158.7	164.3
130°	231.4	212.0	195.3	181.6	170.9	164.8	160.2	158.7	160.2	164.8	170.9
132.5°	236.3	217.4	201.0	187.7	177.0	169.7	164.7	162.7	164.7	169.7	177.0
135°	242.6	225.3	209.6	195.8	185.1	177.5	171.9	169.9	171.9	177.5	185.1
137.5°	247.3	230.8	215.6	203.0	192.3	184.2	178.7	176.6	178.7	184.2	192.3
140°	249.8	234.4	219.7	207.0	196.8	188.7	183.6	181.1	183.6	188.7	196.8
142.5°	252.2	237.3	223.0	211.1	200.9	193.6	188.1	185.9	188.1	193.6	200.9
145°	254.9	241.1	227.8	216.2	207.5	199.9	195.3	193.8	195.3	199.9	207.5
147.5°	256.5	244.2	232.0	222.0	213.7	207.1	202.6	201.7	202.6	207.1	213.7
150°	256.8	246.2	234.4	225.3	218.2	211.6	207.5	207.0	207.5	211.6	218.2
152.5°	257.7	247.4	237.3	228.5	222.3	216.5	212.4	212.3	212.4	216.5	222.3
155°	257.9	249.8	241.1	234.0	228.4	223.3	220.3	220.3	220.3	223.3	228.4
157.5°	258.4	251.0	244.2	238.6	233.9	229.3	226.9	226.5	226.9	229.3	233.9
160°	258.4	252.3	246.2	241.1	237.6	233.4	231.4	231.4	231.4	233.4	237.6
162.5°	258.0	252.7	247.4	243.1	240.0	236.7	235.1	235.1	235.1	236.7	240.0
165°	256.8	253.2	249.2	245.7	243.6	241.1	240.0	240.6	240.0	241.1	243.6
167.5°	256.0	253.2	250.2	248.0	246.6	244.6	244.2	244.8	244.2	244.6	246.6
170°	254.9	252.8	250.2	249.2	248.2	246.6	246.2	247.2	246.2	246.6	248.2
172.5°	254.4	252.8	250.7	250.0	249.4	248.3	248.2	248.8	248.2	248.3	249.4
175°	253.2	252.3	251.3	250.7	250.7	249.8	250.2	250.7	250.2	249.8	250.7
177.5°	252.4	251.6	251.3	251.3	251.3	250.8	251.3	251.6	251.3	250.8	251.3
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	6.6	7.0	7.1	7.7	7.7	8.3	8.2	7.8	7.8	8.7	7.8
90°	5.6	6.6	8.1	9.6	11.1	12.8	12.2	12.8	13.2	13.7	14.7
92.5°	21.8	29.4	42.7	64.6	86.1	78.2	59.0	42.8	34.0	30.1	27.4
95°	46.3	66.1	109.3	185.1	268.6	301.6	244.6	183.1	124.1	97.1	78.8
97.5°	54.9	76.4	117.7	203.1	342.1	467.4	500.1	456.5	365.6	300.0	239.2
100°	61.0	80.9	116.5	191.7	325.5	481.6	581.8	599.7	558.5	498.9	426.7
102.5°	67.9	86.1	118.1	182.0	301.1	455.2	585.9	647.3	646.0	611.3	565.4
105°	79.4	95.1	122.6	175.0	271.1	408.9	554.9	661.2	712.0	721.8	708.5
107.5°	92.2	106.8	130.9	174.4	252.0	368.0	500.6	621.1	703.7	748.2	766.3
110°	100.7	114.9	137.9	176.5	244.6	344.8	466.4	582.8	676.5	740.6	776.1



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	109.7	123.5	144.7	180.6	240.6	329.4	436.7	545.0	640.6	712.5	758.2
115°	123.1	136.8	156.1	187.2	239.1	312.8	400.8	494.9	583.4	658.2	713.5
117.5°	136.4	149.1	168.3	195.9	240.0	303.0	379.2	458.5	534.9	602.1	658.4
120°	145.0	157.7	175.9	202.4	241.6	298.5	367.7	439.4	508.1	569.1	620.5
122.5°	152.7	166.2	184.1	208.6	244.4	295.7	358.4	424.4	486.5	543.1	590.8
125°	164.3	178.0	195.8	218.2	248.7	291.9	346.3	404.3	459.8	508.6	549.3
127.5°	175.0	188.8	206.0	226.1	253.6	290.1	335.8	386.8	436.3	480.4	517.4
130°	181.6	195.3	212.0	231.4	256.8	288.9	330.1	375.9	421.6	462.8	497.4
132.5°	187.7	201.0	217.4	236.3	259.3	288.5	324.8	365.7	407.8	446.1	479.1
135°	195.8	209.6	225.3	242.6	263.0	287.8	317.9	352.0	388.1	421.2	450.1
137.5°	203.0	215.6	230.8	247.3	265.4	286.8	311.9	339.5	369.1	397.5	422.7
140°	207.0	219.7	234.4	249.8	267.0	286.3	308.2	332.2	358.0	382.5	404.3
142.5°	211.1	223.0	237.3	252.2	268.2	285.5	305.0	325.2	347.5	368.6	387.6
145°	216.2	227.8	241.1	254.9	269.0	284.3	300.6	316.8	333.7	349.9	364.7
147.5°	222.0	232.0	244.2	256.5	269.0	282.4	296.3	310.0	323.3	336.5	347.0
150°	225.3	234.4	246.2	256.8	269.0	280.7	293.5	305.1	316.8	327.5	337.2
152.5°	228.5	237.3	247.4	257.7	267.9	278.7	290.3	300.7	310.8	320.2	328.2
155°	234.0	241.1	249.8	257.9	266.5	275.2	285.3	294.0	302.1	309.8	315.8
157.5°	238.6	244.2	251.0	258.4	264.7	272.0	279.8	286.9	293.6	299.6	304.3
160°	241.1	246.2	252.3	258.4	263.9	269.6	276.2	282.8	288.4	293.5	297.0
162.5°	243.1	247.4	252.7	258.0	262.3	267.2	272.5	277.9	282.7	287.4	290.5
165°	245.7	249.2	253.2	256.8	259.9	263.5	267.5	271.6	274.6	278.2	280.7
167.5°	248.0	250.2	253.2	256.0	257.4	259.8	262.8	266.1	268.4	270.5	272.3
170°	249.2	250.2	252.8	254.9	255.8	257.3	259.9	262.4	263.9	266.0	267.0
172.5°	250.0	250.7	252.8	254.4	254.6	255.3	257.1	259.2	260.3	261.9	262.5
175°	250.7	251.3	252.3	253.2	252.8	252.8	253.8	254.9	255.3	256.4	256.4
177.5°	251.3	251.3	251.6	252.4	251.6	251.3	251.6	252.1	252.4	252.9	252.9
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	7.8	7.8	7.7	7.3	7.7	7.8	7.8	7.8	8.7	7.8	7.8
90°	14.3	14.7	15.2	14.7	15.2	14.7	14.3	14.7	13.7	13.2	12.8
92.5°	26.5	24.9	25.4	24.5	25.4	24.9	26.5	27.4	30.1	34.0	42.8
95°	69.2	64.6	61.0	59.0	61.0	64.6	69.2	78.8	97.1	124.1	183.1
97.5°	201.6	178.7	165.0	160.6	165.0	178.7	201.6	239.2	300.0	365.6	456.5
100°	375.3	338.2	318.4	318.9	318.4	338.2	375.3	426.7	498.9	558.5	599.7
102.5°	525.5	496.1	479.5	467.8	479.5	496.1	525.5	565.4	611.3	646.0	647.3
105°	685.1	665.8	649.5	646.9	649.5	665.8	685.1	708.5	721.8	712.0	661.2
107.5°	766.8	760.3	754.7	750.1	754.7	760.3	766.8	766.3	748.2	703.7	621.1
110°	790.4	794.4	793.4	792.4	793.4	794.4	790.4	776.1	740.6	676.5	582.8



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	784.3	796.9	800.8	800.9	800.8	796.9	784.3	758.2	712.5	640.6	545.0
115°	751.7	774.1	784.3	786.8	784.3	774.1	751.7	713.5	658.2	583.4	494.9
117.5°	698.1	723.7	738.4	741.8	738.4	723.7	698.1	658.4	602.1	534.9	458.5
120°	660.7	689.2	701.3	704.5	701.3	689.2	660.7	620.5	569.1	508.1	439.4
122.5°	626.5	652.1	665.6	669.4	665.6	652.1	626.5	590.8	543.1	486.5	424.4
125°	581.8	604.2	617.0	620.5	617.0	604.2	581.8	549.3	508.6	459.8	404.3
127.5°	546.4	565.4	576.9	580.2	576.9	565.4	546.4	517.4	480.4	436.3	386.8
130°	524.4	542.7	553.4	557.4	553.4	542.7	524.4	497.4	462.8	421.6	375.9
132.5°	504.4	522.7	532.2	535.0	532.2	522.7	504.4	479.1	446.1	407.8	365.7
135°	475.0	490.3	499.4	503.0	499.4	490.3	475.0	450.1	421.2	388.1	352.0
137.5°	443.6	459.1	466.8	469.1	466.8	459.1	443.6	422.7	397.5	369.1	339.5
140°	423.7	437.9	446.0	445.5	446.0	437.9	423.7	404.3	382.5	358.0	332.2
142.5°	404.1	416.8	424.1	423.6	424.1	416.8	404.1	387.6	368.6	347.5	325.2
145°	377.4	388.1	392.2	393.2	392.2	388.1	377.4	364.7	349.9	333.7	316.8
147.5°	356.6	363.8	367.7	368.1	367.7	363.8	356.6	347.0	336.5	323.3	310.0
150°	344.8	350.4	353.5	353.5	353.5	350.4	344.8	337.2	327.5	316.8	305.1
152.5°	334.2	339.5	341.3	341.3	341.3	339.5	334.2	328.2	320.2	310.8	300.7
155°	320.4	324.5	325.5	326.0	325.5	324.5	320.4	315.8	309.8	302.1	294.0
157.5°	308.4	311.4	312.2	312.1	312.2	311.4	308.4	304.3	299.6	293.6	286.9
160°	300.6	303.6	303.6	303.1	303.6	303.6	300.6	297.0	293.5	288.4	282.8
162.5°	292.8	295.5	295.5	295.0	295.5	295.5	292.8	290.5	287.4	282.7	277.9
165°	282.8	284.8	284.3	284.3	284.3	284.8	282.8	280.7	278.2	274.6	271.6
167.5°	273.2	274.6	274.1	274.1	274.1	274.6	273.2	272.3	270.5	268.4	266.1
170°	267.5	268.6	268.0	268.0	268.0	268.6	267.5	267.0	266.0	263.9	262.4
172.5°	262.6	263.7	262.8	262.3	262.8	263.7	262.6	262.5	261.9	260.3	259.2
175°	256.4	256.8	256.4	255.8	256.4	256.8	256.4	256.4	256.4	255.3	254.9
177.5°	252.4	252.9	252.1	252.1	252.1	252.9	252.4	252.9	252.9	252.4	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	8.2	8.3	7.7	7.7	7.1	7.0	6.6	6.7	6.6	6.4	6.8
90°	12.2	12.8	11.1	9.6	8.1	6.6	5.6	4.5	3.0	2.1	1.0
92.5°	59.0	78.2	86.1	64.6	42.7	29.4	21.8	17.6	13.6	9.4	6.3
95°	244.6	301.6	268.6	185.1	109.3	66.1	46.3	33.1	24.4	18.8	17.3
97.5°	500.1	467.4	342.1	203.1	117.7	76.4	54.9	41.9	34.4	30.1	29.5
100°	581.8	481.6	325.5	191.7	116.5	80.9	61.0	48.9	41.7	38.2	37.6
102.5°	585.9	455.2	301.1	182.0	118.1	86.1	67.9	57.0	50.3	47.1	46.2
105°	554.9	408.9	271.1	175.0	122.6	95.1	79.4	69.6	63.6	60.5	59.0
107.5°	500.6	368.0	252.0	174.4	130.9	106.8	92.2	83.1	77.1	74.2	72.6
110°	466.4	344.8	244.6	176.5	137.9	114.9	100.7	92.0	86.5	83.9	82.4



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	436.7	329.4	240.6	180.6	144.7	123.5	109.7	101.0	95.4	92.9	91.3
115°	400.8	312.8	239.1	187.2	156.1	136.8	123.1	114.4	109.3	106.3	104.2
117.5°	379.2	303.0	240.0	195.9	168.3	149.1	136.4	126.7	122.1	119.5	117.2
120°	367.7	298.5	241.6	202.4	175.9	157.7	145.0	135.3	130.2	127.7	126.2
122.5°	358.4	295.7	244.4	208.6	184.1	166.2	152.7	143.4	137.9	135.4	133.8
125°	346.3	291.9	248.7	218.2	195.8	178.0	164.3	154.6	149.0	146.0	145.0
127.5°	335.8	290.1	253.6	226.1	206.0	188.8	175.0	164.3	158.7	154.9	153.4
130°	330.1	288.9	256.8	231.4	212.0	195.3	181.6	170.9	164.8	160.2	158.7
132.5°	324.8	288.5	259.3	236.3	217.4	201.0	187.7	177.0	169.7	164.7	162.7
135°	317.9	287.8	263.0	242.6	225.3	209.6	195.8	185.1	177.5	171.9	169.9
137.5°	311.9	286.8	265.4	247.3	230.8	215.6	203.0	192.3	184.2	178.7	176.6
140°	308.2	286.3	267.0	249.8	234.4	219.7	207.0	196.8	188.7	183.6	181.1
142.5°	305.0	285.5	268.2	252.2	237.3	223.0	211.1	200.9	193.6	188.1	185.9
145°	300.6	284.3	269.0	254.9	241.1	227.8	216.2	207.5	199.9	195.3	193.8
147.5°	296.3	282.4	269.0	256.5	244.2	232.0	222.0	213.7	207.1	202.6	201.7
150°	293.5	280.7	269.0	256.8	246.2	234.4	225.3	218.2	211.6	207.5	207.0
152.5°	290.3	278.7	267.9	257.7	247.4	237.3	228.5	222.3	216.5	212.4	212.3
155°	285.3	275.2	266.5	257.9	249.8	241.1	234.0	228.4	223.3	220.3	220.3
157.5°	279.8	272.0	264.7	258.4	251.0	244.2	238.6	233.9	229.3	226.9	226.5
160°	276.2	269.6	263.9	258.4	252.3	246.2	241.1	237.6	233.4	231.4	231.4
162.5°	272.5	267.2	262.3	258.0	252.7	247.4	243.1	240.0	236.7	235.1	235.1
165°	267.5	263.5	259.9	256.8	253.2	249.2	245.7	243.6	241.1	240.0	240.6
167.5°	262.8	259.8	257.4	256.0	253.2	250.2	248.0	246.6	244.6	244.2	244.8
170°	259.9	257.3	255.8	254.9	252.8	250.2	249.2	248.2	246.6	246.2	247.2
172.5°	257.1	255.3	254.6	254.4	252.8	250.7	250.0	249.4	248.3	248.2	248.8
175°	253.8	252.8	252.8	253.2	252.3	251.3	250.7	250.7	249.8	250.2	250.7
177.5°	251.6	251.3	251.6	252.4	251.6	251.3	251.3	251.3	250.8	251.3	251.6
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.5	7.8	8.8	9.6	10.9	12.0	12.0	11.8	11.9	11.4	11.3
90°	2.1	3.0	4.5	5.6	6.6	8.1	9.6	11.1	12.8	12.2	12.8
92.5°	9.4	13.6	17.6	21.8	29.4	42.7	64.6	86.1	78.2	59.0	42.8
95°	18.8	24.4	33.1	46.3	66.1	109.3	185.1	268.6	301.6	244.6	183.1
97.5°	30.1	34.4	41.9	54.9	76.4	117.7	203.1	342.1	467.4	500.1	456.5
100°	38.2	41.7	48.9	61.0	80.9	116.5	191.7	325.5	481.6	581.8	599.7
102.5°	47.1	50.3	57.0	67.9	86.1	118.1	182.0	301.1	455.2	585.9	647.3
105°	60.5	63.6	69.6	79.4	95.1	122.6	175.0	271.1	408.9	554.9	661.2
107.5°	74.2	77.1	83.1	92.2	106.8	130.9	174.4	252.0	368.0	500.6	621.1
110°	83.9	86.5	92.0	100.7	114.9	137.9	176.5	244.6	344.8	466.4	582.8





TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	92.9	95.4	101.0	109.7	123.5	144.7	180.6	240.6	329.4	436.7	545.0
115°	106.3	109.3	114.4	123.1	136.8	156.1	187.2	239.1	312.8	400.8	494.9
117.5°	119.5	122.1	126.7	136.4	149.1	168.3	195.9	240.0	303.0	379.2	458.5
120°	127.7	130.2	135.3	145.0	157.7	175.9	202.4	241.6	298.5	367.7	439.4
122.5°	135.4	137.9	143.4	152.7	166.2	184.1	208.6	244.4	295.7	358.4	424.4
125°	146.0	149.0	154.6	164.3	178.0	195.8	218.2	248.7	291.9	346.3	404.3
127.5°	154.9	158.7	164.3	175.0	188.8	206.0	226.1	253.6	290.1	335.8	386.8
130°	160.2	164.8	170.9	181.6	195.3	212.0	231.4	256.8	288.9	330.1	375.9
132.5°	164.7	169.7	177.0	187.7	201.0	217.4	236.3	259.3	288.5	324.8	365.7
135°	171.9	177.5	185.1	195.8	209.6	225.3	242.6	263.0	287.8	317.9	352.0
137.5°	178.7	184.2	192.3	203.0	215.6	230.8	247.3	265.4	286.8	311.9	339.5
140°	183.6	188.7	196.8	207.0	219.7	234.4	249.8	267.0	286.3	308.2	332.2
142.5°	188.1	193.6	200.9	211.1	223.0	237.3	252.2	268.2	285.5	305.0	325.2
145°	195.3	199.9	207.5	216.2	227.8	241.1	254.9	269.0	284.3	300.6	316.8
147.5°	202.6	207.1	213.7	222.0	232.0	244.2	256.5	269.0	282.4	296.3	310.0
150°	207.5	211.6	218.2	225.3	234.4	246.2	256.8	269.0	280.7	293.5	305.1
152.5°	212.4	216.5	222.3	228.5	237.3	247.4	257.7	267.9	278.7	290.3	300.7
155°	220.3	223.3	228.4	234.0	241.1	249.8	257.9	266.5	275.2	285.3	294.0
157.5°	226.9	229.3	233.9	238.6	244.2	251.0	258.4	264.7	272.0	279.8	286.9
160°	231.4	233.4	237.6	241.1	246.2	252.3	258.4	263.9	269.6	276.2	282.8
162.5°	235.1	236.7	240.0	243.1	247.4	252.7	258.0	262.3	267.2	272.5	277.9
165°	240.0	241.1	243.6	245.7	249.2	253.2	256.8	259.9	263.5	267.5	271.6
167.5°	244.2	244.6	246.6	248.0	250.2	253.2	256.0	257.4	259.8	262.8	266.1
170°	246.2	246.6	248.2	249.2	250.2	252.8	254.9	255.8	257.3	259.9	262.4
172.5°	248.2	248.3	249.4	250.0	250.7	252.8	254.4	254.6	255.3	257.1	259.2
175°	250.2	249.8	250.7	250.7	251.3	252.3	253.2	252.8	252.8	253.8	254.9
177.5°	251.3	250.8	251.3	251.3	251.3	251.6	252.4	251.6	251.3	251.6	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	11.1	11.0	10.9	11.1	10.9	10.7	11.1
90°	13.2	13.7	14.7	14.3	14.7	15.2	14.7
92.5°	34.0	30.1	27.4	26.5	24.9	25.4	24.5
95°	124.1	97.1	78.8	69.2	64.6	61.0	59.0
97.5°	365.6	300.0	239.2	201.6	178.7	165.0	160.6
100°	558.5	498.9	426.7	375.3	338.2	318.4	318.9
102.5°	646.0	611.3	565.4	525.5	496.1	479.5	467.8
105°	712.0	721.8	708.5	685.1	665.8	649.5	646.9
107.5°	703.7	748.2	766.3	766.8	760.3	754.7	750.1
110°	676.5	740.6	776.1	790.4	794.4	793.4	792.4



TEST NUMBER: P331921-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	640.6	712.5	758.2	784.3	796.9	800.8	800.9
115°	583.4	658.2	713.5	751.7	774.1	784.3	786.8
117.5°	534.9	602.1	658.4	698.1	723.7	738.4	741.8
120°	508.1	569.1	620.5	660.7	689.2	701.3	704.5
122.5°	486.5	543.1	590.8	626.5	652.1	665.6	669.4
125°	459.8	508.6	549.3	581.8	604.2	617.0	620.5
127.5°	436.3	480.4	517.4	546.4	565.4	576.9	580.2
130°	421.6	462.8	497.4	524.4	542.7	553.4	557.4
132.5°	407.8	446.1	479.1	504.4	522.7	532.2	535.0
135°	388.1	421.2	450.1	475.0	490.3	499.4	503.0
137.5°	369.1	397.5	422.7	443.6	459.1	466.8	469.1
140°	358.0	382.5	404.3	423.7	437.9	446.0	445.5
142.5°	347.5	368.6	387.6	404.1	416.8	424.1	423.6
145°	333.7	349.9	364.7	377.4	388.1	392.2	393.2
147.5°	323.3	336.5	347.0	356.6	363.8	367.7	368.1
150°	316.8	327.5	337.2	344.8	350.4	353.5	353.5
152.5°	310.8	320.2	328.2	334.2	339.5	341.3	341.3
155°	302.1	309.8	315.8	320.4	324.5	325.5	326.0
157.5°	293.6	299.6	304.3	308.4	311.4	312.2	312.1
160°	288.4	293.5	297.0	300.6	303.6	303.6	303.1
162.5°	282.7	287.4	290.5	292.8	295.5	295.5	295.0
165°	274.6	278.2	280.7	282.8	284.8	284.3	284.3
167.5°	268.4	270.5	272.3	273.2	274.6	274.1	274.1
170°	263.9	266.0	267.0	267.5	268.6	268.0	268.0
172.5°	260.3	261.9	262.5	262.6	263.7	262.8	262.3
175°	255.3	256.4	256.4	256.4	256.8	256.4	255.8
177.5°	252.4	252.9	252.9	252.4	252.9	252.1	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3

(END OF REPORT)