

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: P331921-927

Luminaire Tested: **S123DIP-S560D585U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331921-927  
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-S560D585U927-4F0-1E-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: 3571.1 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

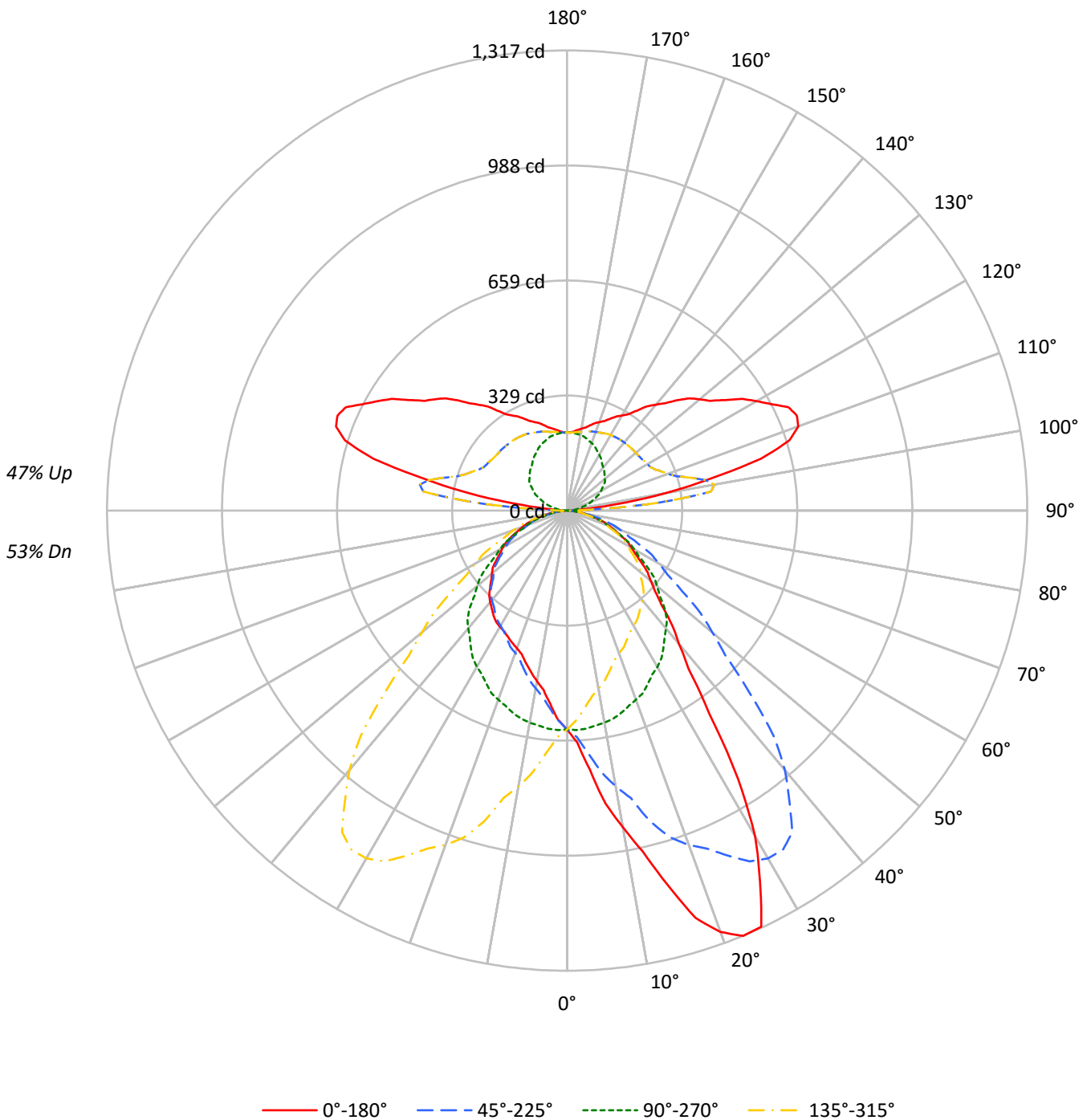
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6740	6740	6740	6740
5°	8038	6769	5999	6769
10°	10061	6735	5418	6735
15°	12340	6681	5045	6681
20°	14701	6596	4803	6596
25°	15610	6494	4749	6494
30°	13380	6418	4774	6418
35°	9305	6311	4824	6311
40°	7009	6185	4808	6185
45°	5820	5999	4748	5999
50°	5213	5620	4706	5620
55°	4874	5210	4647	5210
60°	4573	4781	4598	4781
65°	4297	4358	4452	4358
70°	4028	3877	4239	3877
75°	3606	3394	3889	3394
80°	3155	2783	3347	2783
85°	2470	2025	2248	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	1.7
10°-20°	197.8	5.5
20°-30°	332.0	9.3
30°-40°	375.9	10.5
40°-50°	337.1	9.4
50°-60°	272.0	7.6
60°-70°	189.6	5.3
70°-80°	99.6	2.8
80°-90°	26.1	0.7
90°-100°	124.2	3.5
100°-110°	351.7	9.8
110°-120°	346.0	9.7
120°-130°	276.0	7.7
130°-140°	217.6	6.1
140°-150°	162.4	4.5
150°-160°	113.2	3.2
160°-170°	66.5	1.9
170°-180°	21.6	0.6
0°-30°	591.5	16.6
0°-40°	967.4	27.1
0°-60°	1576.5	44.1
0°-90°	1891.8	53.0
90°-120°	822.0	23.0
90°-150°	1478.0	41.4
90°-180°	1679.0	47.0
0°-180°	3571.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	626	626	626	626	626	
5°	744	626	555	626	744	77
15°	1107	600	453	600	1107	320
25°	1314	547	400	547	1314	576
35°	708	480	367	480	708	460
45°	382	394	312	394	382	303
55°	260	278	248	278	260	233
65°	169	171	175	171	169	168
75°	87	82	94	82	87	93
85°	20	16	18	16	20	24
90°	13	1	13	1	13	8
95°	52	15	52	15	52	94
105°	575	52	575	52	575	567
115°	699	93	699	93	699	679
125°	551	129	551	129	551	500
135°	447	151	447	151	447	347
145°	349	172	349	172	349	222
155°	290	196	290	196	290	135
165°	252	214	252	214	252	72
175°	227	223	227	223	227	22
180°	223	223	223	223	223	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	664.6	664.1	662.9	663.8	661.9	659.3	659.0	656.6	649.5	649.0	647.1
5°	743.9	741.5	741.2	740.9	736.7	730.9	719.9	719.1	704.5	697.2	688.4
7.5°	846.8	848.0	843.6	839.7	826.7	818.2	806.4	791.5	773.6	755.4	743.3
10°	920.5	930.5	918.1	909.6	901.7	886.8	869.6	848.0	826.5	801.3	782.2
12.5°	999.7	1004.6	1002.1	994.0	981.8	959.2	928.5	904.8	884.9	843.0	826.1
15°	1107.4	1125.9	1114.1	1086.8	1087.4	1065.9	1025.8	981.8	958.5	921.7	871.6
17.5°	1222.3	1224.6	1219.5	1196.7	1181.5	1152.0	1115.0	1072.9	1025.5	981.1	928.0
20°	1283.4	1281.6	1271.0	1259.1	1233.0	1210.0	1169.6	1122.6	1061.9	1018.2	960.3
22.5°	1317.4	1314.3	1309.3	1299.4	1277.7	1252.9	1216.7	1165.3	1107.6	1047.3	980.4
25°	1314.3	1318.3	1318.9	1316.1	1308.6	1293.7	1265.2	1224.2	1166.6	1089.3	1019.5
27.5°	1195.4	1200.9	1217.2	1231.6	1247.7	1264.0	1261.9	1241.5	1198.9	1132.0	1046.7
30°	1076.5	1064.3	1094.4	1132.3	1158.1	1203.6	1229.1	1230.6	1206.7	1149.3	1066.1
32.5°	911.4	924.8	938.0	984.7	1041.1	1092.2	1142.9	1183.8	1188.4	1150.2	1077.5
35°	708.1	724.8	749.1	773.4	834.1	886.2	975.4	1053.1	1115.0	1123.2	1078.6
37.5°	570.6	578.9	594.2	618.5	658.2	720.2	789.2	887.3	977.0	1043.7	1046.6
40°	498.8	501.2	518.5	537.0	569.2	620.1	682.4	769.1	876.5	969.7	1008.5
42.5°	444.9	450.3	457.6	475.4	501.0	539.3	597.1	668.9	767.3	874.5	950.5
45°	382.3	388.3	392.9	404.7	422.9	448.7	489.1	554.6	629.5	740.3	842.6
47.5°	340.9	341.4	344.8	353.7	366.1	385.5	414.0	456.1	524.9	614.7	719.7
50°	311.3	316.2	317.3	324.3	334.1	348.3	372.0	407.7	464.2	543.1	639.6
52.5°	290.4	291.8	295.2	300.3	308.8	319.9	340.4	368.4	412.7	480.0	568.7
55°	259.7	259.7	263.1	267.0	271.9	281.9	295.5	316.2	349.8	402.0	475.5
57.5°	231.3	232.8	235.2	236.4	240.5	247.2	258.6	274.3	299.4	339.5	397.9
60°	212.4	215.1	214.8	217.2	220.9	226.0	235.8	248.5	270.9	303.1	352.3
62.5°	195.9	195.7	195.7	198.5	202.2	207.1	213.4	224.4	243.5	272.0	313.9
65°	168.7	168.1	170.2	172.1	173.3	176.9	181.7	191.5	204.2	225.5	257.9
67.5°	144.6	142.8	143.9	144.6	146.6	149.5	154.0	160.0	170.2	187.2	211.7
70°	128.0	126.5	126.2	126.8	128.7	130.8	134.1	139.9	149.2	163.0	180.9
72.5°	111.1	110.0	110.0	111.3	112.2	113.5	115.9	121.2	128.7	138.9	155.6
75°	86.7	86.7	86.7	87.1	88.0	89.2	91.0	93.7	99.5	106.8	118.0
77.5°	65.0	65.0	64.6	64.6	65.9	66.5	66.9	69.4	72.6	77.6	85.7
80°	50.9	49.4	50.1	50.9	51.6	51.9	52.8	53.4	56.2	58.9	64.6
82.5°	37.9	36.6	36.7	38.1	38.3	38.5	39.5	40.3	41.4	43.8	46.9
85°	20.0	20.0	20.4	20.4	20.6	20.4	21.2	21.5	21.5	23.1	24.9
87.5°	9.9	9.5	9.7	9.8	9.7	9.7	9.9	10.1	10.1	10.5	10.5
90°	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3	10.9	11.3	9.9
92.5°	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0	52.4	69.5	76.4
95°	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6	217.3	267.9	238.6
97.5°	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5	444.3	415.3	304.0
100°	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7	516.9	427.9	289.1
102.5°	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0	520.5	404.4	267.5
105°	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4	493.0	363.3	240.8
107.5°	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8	444.7	326.9	223.9
110°	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8	414.3	306.3	217.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2	387.9	292.6	213.7
115°	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7	356.1	277.9	212.4
117.5°	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3	336.8	269.2	213.2
120°	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4	326.7	265.2	214.6
122.5°	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0	318.4	262.7	217.1
125°	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2	307.7	259.4	220.9
127.5°	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6	298.3	257.7	225.3
130°	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9	293.3	256.7	228.1
132.5°	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9	288.5	256.3	230.4
135°	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7	282.4	255.7	233.6
137.5°	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6	277.1	254.8	235.8
140°	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1	273.8	254.4	237.2
142.5°	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9	270.9	253.7	238.3
145°	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5	267.0	252.5	239.0
147.5°	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4	263.2	250.9	239.0
150°	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1	260.7	249.4	239.0
152.5°	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1	257.9	247.6	238.0
155°	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2	253.5	244.5	236.8
157.5°	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8	248.6	241.6	235.2
160°	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2	245.3	239.5	234.5
162.5°	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9	242.1	237.3	233.1
165°	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3	237.7	234.1	230.9
167.5°	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4	233.5	230.8	228.7
170°	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1	230.9	228.6	227.3
172.5°	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3	228.4	226.8	226.2
175°	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4	225.5	224.6	224.6
177.5°	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9	223.6	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	645.6	643.7	641.7	638.3	635.4	631.3	630.1	628.7	624.3	620.4	617.5
5°	685.1	677.8	667.2	657.4	649.6	639.0	632.9	626.5	617.4	609.3	602.5
7.5°	726.4	712.0	695.5	677.7	661.1	645.0	632.1	620.6	607.8	595.7	586.4
10°	759.1	738.5	715.4	690.5	669.3	648.6	631.4	616.2	599.8	585.6	573.7
12.5°	796.5	765.9	734.1	703.9	678.7	650.1	629.2	609.9	591.4	574.2	560.9
15°	840.7	801.9	764.3	722.7	684.4	648.6	623.8	599.5	578.0	560.4	543.4
17.5°	881.0	837.0	787.4	736.9	690.8	648.3	613.5	586.1	559.1	537.6	520.6
20°	903.8	853.7	797.6	745.1	694.2	646.8	608.6	575.8	546.8	523.9	504.9
22.5°	923.5	864.9	806.8	750.8	694.0	642.9	599.7	565.9	534.3	512.1	491.8
25°	943.9	873.8	815.6	749.7	686.3	633.5	584.9	546.8	515.2	489.1	468.2
27.5°	961.4	873.2	804.1	733.2	674.3	621.4	569.6	528.5	495.0	466.7	445.4
30°	973.0	874.4	792.2	722.1	662.7	608.0	557.6	516.4	481.2	452.3	432.4
32.5°	980.3	873.7	781.3	706.5	644.2	595.9	544.8	502.1	465.9	437.6	418.3
35°	984.5	868.3	762.5	674.5	614.4	567.4	524.6	480.3	442.4	416.0	394.1
37.5°	976.0	857.1	740.6	643.5	577.7	531.5	495.4	457.7	421.4	392.4	373.5
40°	962.7	849.9	723.6	621.7	552.5	507.9	477.3	440.2	404.4	376.8	359.3
42.5°	937.2	835.0	705.0	597.4	526.2	481.6	453.4	422.6	388.6	362.7	345.2
45°	875.0	802.8	676.9	561.0	487.6	441.5	416.6	394.1	363.5	338.3	323.1
47.5°	788.7	754.3	636.4	522.6	447.2	402.8	376.9	358.9	336.4	316.2	301.6
50°	728.8	714.5	609.0	496.4	420.2	376.8	352.0	335.6	319.5	299.1	285.8
52.5°	659.6	668.4	576.9	469.2	392.8	350.1	326.7	313.7	299.1	282.4	270.8
55°	562.2	594.1	521.6	423.6	352.0	311.3	289.1	277.6	269.1	256.7	246.7
57.5°	471.0	511.5	461.7	376.5	311.8	276.8	255.6	243.0	237.5	231.0	223.2
60°	416.8	456.9	419.0	345.0	284.9	251.5	232.7	222.1	216.7	212.1	205.4
62.5°	368.6	409.1	377.2	312.9	258.4	227.5	211.1	200.7	196.5	194.1	188.4
65°	302.2	337.1	315.8	263.1	220.5	193.3	178.4	171.1	167.2	166.3	162.6
67.5°	246.0	272.5	257.1	218.2	184.7	161.1	148.5	142.4	139.3	139.0	136.3
70°	209.1	233.9	222.1	186.9	158.0	139.6	128.7	123.2	121.4	121.0	119.5
72.5°	180.4	197.7	188.4	159.0	136.7	119.9	111.9	106.2	104.1	104.6	103.5
75°	133.5	146.6	141.1	120.7	102.8	91.9	85.2	81.6	79.8	80.7	79.5
77.5°	96.1	104.3	99.4	85.3	74.3	66.4	61.5	59.3	57.6	57.5	57.0
80°	72.5	77.4	74.6	66.1	57.0	50.4	46.4	44.9	44.0	43.7	43.4
82.5°	51.7	55.8	52.5	46.7	40.6	36.5	34.3	32.3	31.6	31.8	31.5
85°	26.1	27.6	26.4	22.7	20.4	18.5	17.3	16.4	15.8	16.1	15.4
87.5°	10.7	10.7	9.7	8.6	7.8	6.9	6.7	6.0	5.7	5.9	5.9
90°	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9	1.8	2.7	4.0
92.5°	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6	8.3	12.1	15.6
95°	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4	16.7	21.7	29.4
97.5°	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2	26.7	30.6	37.2
100°	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4	33.9	37.1	43.4
102.5°	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0	41.8	44.7	50.6
105°	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4	53.8	56.5	61.9
107.5°	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5	65.9	68.5	73.8
110°	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2	74.5	76.8	81.8





TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1	82.5	84.8	89.8
115°	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6	94.4	97.1	101.6
117.5°	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1	106.2	108.4	112.6
120°	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1	113.4	115.7	120.2
122.5°	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9	120.3	122.6	127.4
125°	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8	129.7	132.4	137.4
127.5°	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3	137.6	141.0	146.0
130°	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0	142.4	146.4	151.8
132.5°	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6	146.3	150.8	157.2
135°	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9	152.7	157.7	164.5
137.5°	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9	158.8	163.7	170.9
140°	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9	163.1	167.6	174.8
142.5°	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2	167.1	172.0	178.5
145°	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1	173.5	177.6	184.3
147.5°	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2	180.0	184.0	189.9
150°	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9	184.3	188.0	193.8
152.5°	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6	188.7	192.3	197.5
155°	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7	195.7	198.4	202.9
157.5°	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2	201.6	203.7	207.8
160°	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6	205.6	207.4	211.0
162.5°	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8	208.8	210.3	213.2
165°	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7	213.3	214.2	216.4
167.5°	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5	216.9	217.3	219.0
170°	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6	218.7	219.1	220.5
172.5°	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0	220.5	220.6	221.6
175°	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8	222.3	221.9	222.8
177.5°	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6	223.2	222.8	223.2
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	615.8	614.1	611.6	608.0	605.1	600.5	600.5	601.2	601.2	600.9	600.5
5°	597.1	592.6	587.1	580.7	574.0	567.4	566.2	563.7	561.9	560.7	559.2
7.5°	577.3	569.3	561.3	552.5	544.3	537.6	532.9	529.0	526.5	523.9	521.9
10°	564.0	554.0	544.6	535.2	524.9	516.7	511.5	507.9	505.2	502.7	501.5
12.5°	548.3	536.8	526.4	517.5	506.2	497.7	492.8	491.2	487.9	482.8	480.1
15°	525.2	514.6	502.2	488.5	483.0	472.7	466.9	464.2	462.4	458.4	457.2
17.5°	505.5	491.5	477.6	467.4	457.2	448.9	445.7	442.3	439.9	436.7	435.7
20°	489.7	477.3	464.5	453.6	443.0	433.9	431.1	428.7	426.3	424.8	423.6
22.5°	473.6	461.2	450.7	440.5	429.1	423.2	420.2	417.6	415.8	414.8	413.6
25°	451.1	440.2	428.4	419.3	410.2	406.2	404.4	402.9	401.7	400.2	399.9
27.5°	431.0	419.1	409.6	401.0	394.5	391.2	389.4	388.7	389.0	389.5	389.8
30°	416.0	405.0	397.1	389.8	383.8	380.8	380.5	380.5	381.7	382.0	382.6
32.5°	402.1	393.2	385.2	378.2	373.6	371.5	372.7	372.7	373.7	374.5	375.6
35°	382.0	374.1	368.0	361.9	358.0	358.9	359.5	360.1	361.6	363.5	364.7
37.5°	362.7	355.9	349.6	344.8	343.0	344.7	346.1	347.4	349.2	350.5	351.7
40°	348.9	343.7	337.7	333.4	334.1	334.9	336.2	337.7	339.2	340.1	341.4
42.5°	336.0	330.7	326.1	322.5	323.4	324.6	325.3	326.1	327.8	329.5	330.2
45°	316.5	312.2	307.9	305.9	306.4	307.0	307.7	308.6	310.1	311.3	311.6
47.5°	294.5	291.4	288.6	286.5	287.5	287.2	288.0	290.0	290.5	291.2	292.9
50°	280.4	277.6	274.3	273.7	273.7	273.7	273.9	276.4	276.4	277.6	278.8
52.5°	264.8	263.1	260.9	259.8	259.4	259.4	260.6	261.8	262.3	264.0	265.2
55°	241.8	240.0	238.2	237.3	236.6	237.3	239.7	240.3	241.8	242.7	243.6
57.5°	217.9	216.4	215.0	214.5	214.4	215.2	216.5	218.3	218.7	221.5	222.8
60°	202.1	199.9	198.8	198.8	198.1	200.8	200.3	203.3	203.9	205.7	207.9
62.5°	185.8	182.9	182.4	182.4	183.3	184.1	185.0	186.3	187.9	190.2	191.8
65°	159.6	158.0	160.2	159.9	159.3	161.1	161.1	162.6	164.5	166.6	169.9
67.5°	134.8	134.0	134.2	134.2	135.1	136.1	137.0	138.3	140.5	142.8	144.9
70°	118.0	118.9	117.4	118.7	119.5	119.9	120.4	122.2	124.7	126.2	128.7
72.5°	101.8	101.7	101.9	102.3	103.3	103.9	104.4	106.5	109.2	110.4	112.4
75°	78.3	78.0	78.9	78.9	80.4	81.0	81.6	82.5	84.9	86.7	88.3
77.5°	57.2	57.5	57.4	58.4	58.0	58.1	60.0	60.8	61.1	64.7	65.5
80°	43.1	43.7	44.0	44.3	44.6	44.0	46.1	47.1	47.1	49.1	50.7
82.5°	31.0	31.3	32.1	32.4	32.5	33.0	33.3	33.9	34.6	35.6	37.5
85°	15.4	16.4	16.7	16.4	16.7	16.1	17.0	17.3	17.6	17.6	17.6
87.5°	5.9	6.3	6.3	6.8	6.8	7.4	7.3	6.9	7.0	7.8	7.0
90°	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3	11.7	12.2	13.1
92.5°	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0	30.2	26.7	24.3
95°	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6	110.3	86.3	70.0
97.5°	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5	324.8	266.5	212.5
100°	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7	496.1	443.2	379.1
102.5°	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0	573.9	543.0	502.3
105°	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4	632.6	641.2	629.4
107.5°	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8	625.2	664.7	680.8
110°	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8	600.9	657.9	689.5



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2	569.1	633.0	673.6
115°	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7	518.2	584.7	633.9
117.5°	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3	475.2	534.9	584.9
120°	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4	451.4	505.6	551.3
122.5°	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0	432.2	482.4	524.8
125°	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2	408.4	451.9	488.0
127.5°	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6	387.6	426.7	459.6
130°	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9	374.5	411.1	441.9
132.5°	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9	362.3	396.3	425.6
135°	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7	344.8	374.1	399.9
137.5°	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6	327.9	353.2	375.5
140°	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1	318.1	339.8	359.2
142.5°	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9	308.7	327.5	344.4
145°	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5	296.4	310.9	324.0
147.5°	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4	287.2	299.0	308.2
150°	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1	281.5	291.0	299.6
152.5°	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1	276.1	284.5	291.6
155°	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2	268.4	275.2	280.6
157.5°	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8	260.9	266.2	270.4
160°	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2	256.2	260.7	263.9
162.5°	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9	251.1	255.3	258.1
165°	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3	244.0	247.2	249.4
167.5°	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4	238.4	240.3	241.9
170°	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1	234.5	236.3	237.2
172.5°	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3	231.2	232.7	233.2
175°	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4	226.8	227.8	227.8
177.5°	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9	224.3	224.7	224.7
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	598.8	598.6	600.2	599.0	600.2	598.6	598.8	600.5	600.9	601.2	601.2
5°	557.4	558.3	555.2	555.2	555.2	558.3	557.4	559.2	560.7	561.9	563.7
7.5°	520.5	519.1	519.3	517.6	519.3	519.1	520.5	521.9	523.9	526.5	529.0
10°	497.9	496.1	495.4	495.7	495.4	496.1	497.9	501.5	502.7	505.2	507.9
12.5°	479.2	478.8	474.8	474.9	474.8	478.8	479.2	480.1	482.8	487.9	491.2
15°	457.2	451.5	450.8	452.7	450.8	451.5	457.2	457.2	458.4	462.4	464.2
17.5°	435.2	432.1	432.4	431.4	432.4	432.1	435.2	435.7	436.7	439.9	442.3
20°	423.6	421.8	421.4	419.3	421.4	421.8	423.6	423.6	424.8	426.3	428.7
22.5°	412.9	412.3	412.4	410.1	412.4	412.3	412.9	413.6	414.8	415.8	417.6
25°	399.6	401.1	399.9	399.9	399.9	401.1	399.6	399.9	400.2	401.7	402.9
27.5°	390.6	390.5	389.9	389.9	389.9	390.5	390.6	389.8	389.5	389.0	388.7
30°	383.8	383.5	384.1	384.1	384.1	383.5	383.8	382.6	382.0	381.7	380.5
32.5°	377.0	377.4	377.6	377.8	377.6	377.4	377.0	375.6	374.5	373.7	372.7
35°	366.5	366.8	367.7	367.1	367.7	366.8	366.5	364.7	363.5	361.6	360.1
37.5°	352.3	353.7	353.4	353.9	353.4	353.7	352.3	351.7	350.5	349.2	347.4
40°	341.7	342.5	342.2	342.2	342.2	342.5	341.7	341.4	340.1	339.2	337.7
42.5°	330.7	331.4	330.6	330.1	330.6	331.4	330.7	330.2	329.5	327.8	326.1
45°	312.8	312.2	313.1	311.9	313.1	312.2	312.8	311.6	311.3	310.1	308.6
47.5°	292.8	293.4	293.7	294.5	293.7	293.4	292.8	292.9	291.2	290.5	290.0
50°	279.4	281.2	281.2	281.0	281.2	281.2	279.4	278.8	277.6	276.4	276.4
52.5°	266.3	267.2	268.4	268.3	268.4	267.2	266.3	265.2	264.0	262.3	261.8
55°	246.1	246.7	247.2	247.6	247.2	246.7	246.1	243.6	242.7	241.8	240.3
57.5°	225.1	224.8	226.2	226.7	226.2	224.8	225.1	222.8	221.5	218.7	218.3
60°	210.2	210.2	212.7	213.6	212.7	210.2	210.2	207.9	205.7	203.9	203.3
62.5°	194.5	195.4	197.9	196.6	197.9	195.4	194.5	191.8	190.2	187.9	186.3
65°	171.4	173.9	173.6	174.8	173.6	173.9	171.4	169.9	166.6	164.5	162.6
67.5°	147.3	148.9	151.1	151.2	151.1	148.9	147.3	144.9	142.8	140.5	138.3
70°	131.1	132.6	133.8	134.7	133.8	132.6	131.1	128.7	126.2	124.7	122.2
72.5°	115.3	116.1	119.0	117.7	119.0	116.1	115.3	112.4	110.4	109.2	106.5
75°	90.4	92.5	94.3	93.5	94.3	92.5	90.4	88.3	86.7	84.9	82.5
77.5°	66.9	69.0	69.9	69.1	69.9	69.0	66.9	65.5	64.7	61.1	60.8
80°	52.8	52.5	54.3	54.0	54.3	52.5	52.8	50.7	49.1	47.1	47.1
82.5°	38.7	38.4	39.3	39.5	39.3	38.4	38.7	37.5	35.6	34.6	33.9
85°	18.8	19.7	18.5	18.2	18.5	19.7	18.8	17.6	17.6	17.6	17.3
87.5°	6.9	7.0	6.8	6.5	6.8	7.0	6.9	7.0	7.8	7.0	6.9
90°	12.7	13.1	13.5	13.1	13.5	13.1	12.7	13.1	12.2	11.7	11.3
92.5°	23.5	22.1	22.6	21.8	22.6	22.1	23.5	24.3	26.7	30.2	38.0
95°	61.5	57.4	54.2	52.4	54.2	57.4	61.5	70.0	86.3	110.3	162.6
97.5°	179.1	158.8	146.6	142.7	146.6	158.8	179.1	212.5	266.5	324.8	405.5
100°	333.4	300.5	282.9	283.3	282.9	300.5	333.4	379.1	443.2	496.1	532.7
102.5°	466.8	440.7	426.0	415.6	426.0	440.7	466.8	502.3	543.0	573.9	575.0
105°	608.6	591.4	577.0	574.7	577.0	591.4	608.6	629.4	641.2	632.6	587.4
107.5°	681.2	675.4	670.5	666.4	670.5	675.4	681.2	680.8	664.7	625.2	551.8
110°	702.2	705.8	704.9	703.9	704.9	705.8	702.2	689.5	657.9	600.9	517.8



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	696.7	708.0	711.4	711.5	711.4	708.0	696.7	673.6	633.0	569.1	484.2
115°	667.8	687.7	696.7	699.0	696.7	687.7	667.8	633.9	584.7	518.2	439.7
117.5°	620.2	642.9	656.0	659.0	656.0	642.9	620.2	584.9	534.9	475.2	407.3
120°	586.9	612.3	623.1	625.8	623.1	612.3	586.9	551.3	505.6	451.4	390.4
122.5°	556.6	579.3	591.3	594.7	591.3	579.3	556.6	524.8	482.4	432.2	377.0
125°	516.9	536.8	548.1	551.3	548.1	536.8	516.9	488.0	451.9	408.4	359.2
127.5°	485.4	502.3	512.5	515.5	512.5	502.3	485.4	459.6	426.7	387.6	343.6
130°	465.9	482.1	491.6	495.2	491.6	482.1	465.9	441.9	411.1	374.5	333.9
132.5°	448.1	464.4	472.8	475.3	472.8	464.4	448.1	425.6	396.3	362.3	324.9
135°	422.0	435.5	443.7	446.9	443.7	435.5	422.0	399.9	374.1	344.8	312.7
137.5°	394.1	407.8	414.7	416.8	414.7	407.8	394.1	375.5	353.2	327.9	301.6
140°	376.4	389.0	396.2	395.8	396.2	389.0	376.4	359.2	339.8	318.1	295.1
142.5°	359.0	370.3	376.8	376.3	376.8	370.3	359.0	344.4	327.5	308.7	288.9
145°	335.3	344.8	348.4	349.3	348.4	344.8	335.3	324.0	310.9	296.4	281.5
147.5°	316.8	323.2	326.7	327.0	326.7	323.2	316.8	308.2	299.0	287.2	275.4
150°	306.3	311.3	314.0	314.0	314.0	311.3	306.3	299.6	291.0	281.5	271.1
152.5°	296.9	301.6	303.2	303.2	303.2	301.6	296.9	291.6	284.5	276.1	267.1
155°	284.6	288.3	289.1	289.6	289.1	288.3	284.6	280.6	275.2	268.4	261.2
157.5°	273.9	276.6	277.3	277.3	277.3	276.6	273.9	270.4	266.2	260.9	254.8
160°	267.0	269.7	269.7	269.3	269.7	269.7	267.0	263.9	260.7	256.2	251.2
162.5°	260.2	262.5	262.5	262.1	262.5	262.5	260.2	258.1	255.3	251.1	246.9
165°	251.2	253.0	252.5	252.5	252.5	253.0	251.2	249.4	247.2	244.0	241.3
167.5°	242.7	244.0	243.5	243.5	243.5	244.0	242.7	241.9	240.3	238.4	236.4
170°	237.7	238.6	238.1	238.1	238.1	238.6	237.7	237.2	236.3	234.5	233.1
172.5°	233.3	234.2	233.5	233.1	233.5	234.2	233.3	233.2	232.7	231.2	230.3
175°	227.8	228.1	227.8	227.3	227.8	228.1	227.8	227.8	227.8	226.8	226.4
177.5°	224.3	224.7	223.9	223.9	223.9	224.7	224.3	224.7	224.7	224.3	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	600.5	600.5	605.1	608.0	611.6	614.1	615.8	617.5	620.4	624.3	628.7
5°	566.2	567.4	574.0	580.7	587.1	592.6	597.1	602.5	609.3	617.4	626.5
7.5°	532.9	537.6	544.3	552.5	561.3	569.3	577.3	586.4	595.7	607.8	620.6
10°	511.5	516.7	524.9	535.2	544.6	554.0	564.0	573.7	585.6	599.8	616.2
12.5°	492.8	497.7	506.2	517.5	526.4	536.8	548.3	560.9	574.2	591.4	609.9
15°	466.9	472.7	483.0	488.5	502.2	514.6	525.2	543.4	560.4	578.0	599.5
17.5°	445.7	448.9	457.2	467.4	477.6	491.5	505.5	520.6	537.6	559.1	586.1
20°	431.1	433.9	443.0	453.6	464.5	477.3	489.7	504.9	523.9	546.8	575.8
22.5°	420.2	423.2	429.1	440.5	450.7	461.2	473.6	491.8	512.1	534.3	565.9
25°	404.4	406.2	410.2	419.3	428.4	440.2	451.1	468.2	489.1	515.2	546.8
27.5°	389.4	391.2	394.5	401.0	409.6	419.1	431.0	445.4	466.7	495.0	528.5
30°	380.5	380.8	383.8	389.8	397.1	405.0	416.0	432.4	452.3	481.2	516.4
32.5°	372.7	371.5	373.6	378.2	385.2	393.2	402.1	418.3	437.6	465.9	502.1
35°	359.5	358.9	358.0	361.9	368.0	374.1	382.0	394.1	416.0	442.4	480.3
37.5°	346.1	344.7	343.0	344.8	349.6	355.9	362.7	373.5	392.4	421.4	457.7
40°	336.2	334.9	334.1	333.4	337.7	343.7	348.9	359.3	376.8	404.4	440.2
42.5°	325.3	324.6	323.4	322.5	326.1	330.7	336.0	345.2	362.7	388.6	422.6
45°	307.7	307.0	306.4	305.9	307.9	312.2	316.5	323.1	338.3	363.5	394.1
47.5°	288.0	287.2	287.5	286.5	288.6	291.4	294.5	301.6	316.2	336.4	358.9
50°	273.9	273.7	273.7	273.7	274.3	277.6	280.4	285.8	299.1	319.5	335.6
52.5°	260.6	259.4	259.4	259.8	260.9	263.1	264.8	270.8	282.4	299.1	313.7
55°	239.7	237.3	236.6	237.3	238.2	240.0	241.8	246.7	256.7	269.1	277.6
57.5°	216.5	215.2	214.4	214.5	215.0	216.4	217.9	223.2	231.0	237.5	243.0
60°	200.3	200.8	198.1	198.8	198.8	199.9	202.1	205.4	212.1	216.7	222.1
62.5°	185.0	184.1	183.3	182.4	182.4	182.9	185.8	188.4	194.1	196.5	200.7
65°	161.1	161.1	159.3	159.9	160.2	158.0	159.6	162.6	166.3	167.2	171.1
67.5°	137.0	136.1	135.1	134.2	134.2	134.0	134.8	136.3	139.0	139.3	142.4
70°	120.4	119.9	119.5	118.7	117.4	118.9	118.0	119.5	121.0	121.4	123.2
72.5°	104.4	103.9	103.3	102.3	101.9	101.7	101.8	103.5	104.6	104.1	106.2
75°	81.6	81.0	80.4	78.9	78.9	78.0	78.3	79.5	80.7	79.8	81.6
77.5°	60.0	58.1	58.0	58.4	57.4	57.5	57.2	57.0	57.5	57.6	59.3
80°	46.1	44.0	44.6	44.3	44.0	43.7	43.1	43.4	43.7	44.0	44.9
82.5°	33.3	33.0	32.5	32.4	32.1	31.3	31.0	31.5	31.8	31.6	32.3
85°	17.0	16.1	16.7	16.4	16.7	16.4	15.4	15.4	16.1	15.8	16.4
87.5°	7.3	7.4	6.8	6.8	6.3	6.3	5.9	5.9	5.9	5.7	6.0
90°	10.9	11.3	9.9	8.6	7.2	5.9	5.0	4.0	2.7	1.8	0.9
92.5°	52.4	69.5	76.4	57.4	37.9	26.1	19.4	15.6	12.1	8.3	5.6
95°	217.3	267.9	238.6	164.5	97.1	58.7	41.1	29.4	21.7	16.7	15.4
97.5°	444.3	415.3	304.0	180.5	104.6	67.9	48.8	37.2	30.6	26.7	26.2
100°	516.9	427.9	289.1	170.3	103.5	71.9	54.2	43.4	37.1	33.9	33.4
102.5°	520.5	404.4	267.5	161.7	104.9	76.5	60.4	50.6	44.7	41.8	41.0
105°	493.0	363.3	240.8	155.4	108.9	84.5	70.5	61.9	56.5	53.8	52.4
107.5°	444.7	326.9	223.9	155.0	116.3	94.9	81.9	73.8	68.5	65.9	64.5
110°	414.3	306.3	217.3	156.8	122.5	102.1	89.4	81.8	76.8	74.5	73.2



TEST NUMBER: P331921-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	387.9	292.6	213.7	160.4	128.6	109.7	97.4	89.8	84.8	82.5	81.1
115°	356.1	277.9	212.4	166.3	138.7	121.5	109.3	101.6	97.1	94.4	92.6
117.5°	336.8	269.2	213.2	174.0	149.5	132.5	121.2	112.6	108.4	106.2	104.1
120°	326.7	265.2	214.6	179.8	156.3	140.1	128.8	120.2	115.7	113.4	112.1
122.5°	318.4	262.7	217.1	185.3	163.6	147.7	135.6	127.4	122.6	120.3	118.9
125°	307.7	259.4	220.9	193.8	174.0	158.1	145.9	137.4	132.4	129.7	128.8
127.5°	298.3	257.7	225.3	200.9	183.0	167.7	155.5	146.0	141.0	137.6	136.3
130°	293.3	256.7	228.1	205.6	188.4	173.5	161.3	151.8	146.4	142.4	141.0
132.5°	288.5	256.3	230.4	209.9	193.1	178.6	166.8	157.2	150.8	146.3	144.6
135°	282.4	255.7	233.6	215.6	200.2	186.2	174.0	164.5	157.7	152.7	150.9
137.5°	277.1	254.8	235.8	219.7	205.0	191.5	180.3	170.9	163.7	158.8	156.9
140°	273.8	254.4	237.2	221.9	208.3	195.2	183.9	174.8	167.6	163.1	160.9
142.5°	270.9	253.7	238.3	224.0	210.8	198.1	187.5	178.5	172.0	167.1	165.2
145°	267.0	252.5	239.0	226.4	214.2	202.4	192.0	184.3	177.6	173.5	172.1
147.5°	263.2	250.9	239.0	227.8	216.9	206.1	197.3	189.9	184.0	180.0	179.2
150°	260.7	249.4	239.0	228.1	218.7	208.3	200.2	193.8	188.0	184.3	183.9
152.5°	257.9	247.6	238.0	228.9	219.8	210.8	203.0	197.5	192.3	188.7	188.6
155°	253.5	244.5	236.8	229.1	221.9	214.2	207.9	202.9	198.4	195.7	195.7
157.5°	248.6	241.6	235.2	229.6	223.0	216.9	212.0	207.8	203.7	201.6	201.2
160°	245.3	239.5	234.5	229.6	224.1	218.7	214.2	211.0	207.4	205.6	205.6
162.5°	242.1	237.3	233.1	229.2	224.5	219.8	215.9	213.2	210.3	208.8	208.8
165°	237.7	234.1	230.9	228.1	225.0	221.4	218.2	216.4	214.2	213.3	213.7
167.5°	233.5	230.8	228.7	227.4	224.9	222.3	220.3	219.0	217.3	216.9	217.5
170°	230.9	228.6	227.3	226.4	224.6	222.3	221.4	220.5	219.1	218.7	219.6
172.5°	228.4	226.8	226.2	226.0	224.6	222.7	222.1	221.6	220.6	220.5	221.0
175°	225.5	224.6	224.6	225.0	224.1	223.2	222.8	222.8	221.9	222.3	222.8
177.5°	223.6	223.2	223.6	224.3	223.6	223.2	223.2	223.2	222.8	223.2	223.6
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.1	631.3	635.4	638.3	641.7	643.7	645.6	647.1	649.0	649.5	656.6
5°	632.9	639.0	649.6	657.4	667.2	677.8	685.1	688.4	697.2	704.5	719.1
7.5°	632.1	645.0	661.1	677.7	695.5	712.0	726.4	743.3	755.4	773.6	791.5
10°	631.4	648.6	669.3	690.5	715.4	738.5	759.1	782.2	801.3	826.5	848.0
12.5°	629.2	650.1	678.7	703.9	734.1	765.9	796.5	826.1	843.0	884.9	904.8
15°	623.8	648.6	684.4	722.7	764.3	801.9	840.7	871.6	921.7	958.5	981.8
17.5°	613.5	648.3	690.8	736.9	787.4	837.0	881.0	928.0	981.1	1025.5	1072.9
20°	608.6	646.8	694.2	745.1	797.6	853.7	903.8	960.3	1018.2	1061.9	1122.6
22.5°	599.7	642.9	694.0	750.8	806.8	864.9	923.5	980.4	1047.3	1107.6	1165.3
25°	584.9	633.5	686.3	749.7	815.6	873.8	943.9	1019.5	1089.3	1166.6	1224.2
27.5°	569.6	621.4	674.3	733.2	804.1	873.2	961.4	1046.7	1132.0	1198.9	1241.5
30°	557.6	608.0	662.7	722.1	792.2	874.4	973.0	1066.1	1149.3	1206.7	1230.6
32.5°	544.8	595.9	644.2	706.5	781.3	873.7	980.3	1077.5	1150.2	1188.4	1183.8
35°	524.6	567.4	614.4	674.5	762.5	868.3	984.5	1078.6	1123.2	1115.0	1053.1
37.5°	495.4	531.5	577.7	643.5	740.6	857.1	976.0	1046.6	1043.7	977.0	887.3
40°	477.3	507.9	552.5	621.7	723.6	849.9	962.7	1008.5	969.7	876.5	769.1
42.5°	453.4	481.6	526.2	597.4	705.0	835.0	937.2	950.5	874.5	767.3	668.9
45°	416.6	441.5	487.6	561.0	676.9	802.8	875.0	842.6	740.3	629.5	554.6
47.5°	376.9	402.8	447.2	522.6	636.4	754.3	788.7	719.7	614.7	524.9	456.1
50°	352.0	376.8	420.2	496.4	609.0	714.5	728.8	639.6	543.1	464.2	407.7
52.5°	326.7	350.1	392.8	469.2	576.9	668.4	659.6	568.7	480.0	412.7	368.4
55°	289.1	311.3	352.0	423.6	521.6	594.1	562.2	475.5	402.0	349.8	316.2
57.5°	255.6	276.8	311.8	376.5	461.7	511.5	471.0	397.9	339.5	299.4	274.3
60°	232.7	251.5	284.9	345.0	419.0	456.9	416.8	352.3	303.1	270.9	248.5
62.5°	211.1	227.5	258.4	312.9	377.2	409.1	368.6	313.9	272.0	243.5	224.4
65°	178.4	193.3	220.5	263.1	315.8	337.1	302.2	257.9	225.5	204.2	191.5
67.5°	148.5	161.1	184.7	218.2	257.1	272.5	246.0	211.7	187.2	170.2	160.0
70°	128.7	139.6	158.0	186.9	222.1	233.9	209.1	180.9	163.0	149.2	139.9
72.5°	111.9	119.9	136.7	159.0	188.4	197.7	180.4	155.6	138.9	128.7	121.2
75°	85.2	91.9	102.8	120.7	141.1	146.6	133.5	118.0	106.8	99.5	93.7
77.5°	61.5	66.4	74.3	85.3	99.4	104.3	96.1	85.7	77.6	72.6	69.4
80°	46.4	50.4	57.0	66.1	74.6	77.4	72.5	64.6	58.9	56.2	53.4
82.5°	34.3	36.5	40.6	46.7	52.5	55.8	51.7	46.9	43.8	41.4	40.3
85°	17.3	18.5	20.4	22.7	26.4	27.6	26.1	24.9	23.1	21.5	21.5
87.5°	6.7	6.9	7.8	8.6	9.7	10.7	10.7	10.5	10.5	10.1	10.1
90°	1.8	2.7	4.0	5.0	5.9	7.2	8.6	9.9	11.3	10.9	11.3
92.5°	8.3	12.1	15.6	19.4	26.1	37.9	57.4	76.4	69.5	52.4	38.0
95°	16.7	21.7	29.4	41.1	58.7	97.1	164.5	238.6	267.9	217.3	162.6
97.5°	26.7	30.6	37.2	48.8	67.9	104.6	180.5	304.0	415.3	444.3	405.5
100°	33.9	37.1	43.4	54.2	71.9	103.5	170.3	289.1	427.9	516.9	532.7
102.5°	41.8	44.7	50.6	60.4	76.5	104.9	161.7	267.5	404.4	520.5	575.0
105°	53.8	56.5	61.9	70.5	84.5	108.9	155.4	240.8	363.3	493.0	587.4
107.5°	65.9	68.5	73.8	81.9	94.9	116.3	155.0	223.9	326.9	444.7	551.8
110°	74.5	76.8	81.8	89.4	102.1	122.5	156.8	217.3	306.3	414.3	517.8





TEST NUMBER: P331921-927

CATALOG NUMBER: S123DIP-S560D585U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	84.8	89.8	97.4	109.7	128.6	160.4	213.7	292.6	387.9	484.2
115°	94.4	97.1	101.6	109.3	121.5	138.7	166.3	212.4	277.9	356.1	439.7
117.5°	106.2	108.4	112.6	121.2	132.5	149.5	174.0	213.2	269.2	336.8	407.3
120°	113.4	115.7	120.2	128.8	140.1	156.3	179.8	214.6	265.2	326.7	390.4
122.5°	120.3	122.6	127.4	135.6	147.7	163.6	185.3	217.1	262.7	318.4	377.0
125°	129.7	132.4	137.4	145.9	158.1	174.0	193.8	220.9	259.4	307.7	359.2
127.5°	137.6	141.0	146.0	155.5	167.7	183.0	200.9	225.3	257.7	298.3	343.6
130°	142.4	146.4	151.8	161.3	173.5	188.4	205.6	228.1	256.7	293.3	333.9
132.5°	146.3	150.8	157.2	166.8	178.6	193.1	209.9	230.4	256.3	288.5	324.9
135°	152.7	157.7	164.5	174.0	186.2	200.2	215.6	233.6	255.7	282.4	312.7
137.5°	158.8	163.7	170.9	180.3	191.5	205.0	219.7	235.8	254.8	277.1	301.6
140°	163.1	167.6	174.8	183.9	195.2	208.3	221.9	237.2	254.4	273.8	295.1
142.5°	167.1	172.0	178.5	187.5	198.1	210.8	224.0	238.3	253.7	270.9	288.9
145°	173.5	177.6	184.3	192.0	202.4	214.2	226.4	239.0	252.5	267.0	281.5
147.5°	180.0	184.0	189.9	197.3	206.1	216.9	227.8	239.0	250.9	263.2	275.4
150°	184.3	188.0	193.8	200.2	208.3	218.7	228.1	239.0	249.4	260.7	271.1
152.5°	188.7	192.3	197.5	203.0	210.8	219.8	228.9	238.0	247.6	257.9	267.1
155°	195.7	198.4	202.9	207.9	214.2	221.9	229.1	236.8	244.5	253.5	261.2
157.5°	201.6	203.7	207.8	212.0	216.9	223.0	229.6	235.2	241.6	248.6	254.8
160°	205.6	207.4	211.0	214.2	218.7	224.1	229.6	234.5	239.5	245.3	251.2
162.5°	208.8	210.3	213.2	215.9	219.8	224.5	229.2	233.1	237.3	242.1	246.9
165°	213.3	214.2	216.4	218.2	221.4	225.0	228.1	230.9	234.1	237.7	241.3
167.5°	216.9	217.3	219.0	220.3	222.3	224.9	227.4	228.7	230.8	233.5	236.4
170°	218.7	219.1	220.5	221.4	222.3	224.6	226.4	227.3	228.6	230.9	233.1
172.5°	220.5	220.6	221.6	222.1	222.7	224.6	226.0	226.2	226.8	228.4	230.3
175°	222.3	221.9	222.8	222.8	223.2	224.1	225.0	224.6	224.6	225.5	226.4
177.5°	223.2	222.8	223.2	223.2	223.2	223.6	224.3	223.6	223.2	223.6	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	659.0	659.3	661.9	663.8	662.9	664.1	664.6
5°	719.9	730.9	736.7	740.9	741.2	741.5	743.9
7.5°	806.4	818.2	826.7	839.7	843.6	848.0	846.8
10°	869.6	886.8	901.7	909.6	918.1	930.5	920.5
12.5°	928.5	959.2	981.8	994.0	1002.1	1004.6	999.7
15°	1025.8	1065.9	1087.4	1086.8	1114.1	1125.9	1107.4
17.5°	1115.0	1152.0	1181.5	1196.7	1219.5	1224.6	1222.3
20°	1169.6	1210.0	1233.0	1259.1	1271.0	1281.6	1283.4
22.5°	1216.7	1252.9	1277.7	1299.4	1309.3	1314.3	1317.4
25°	1265.2	1293.7	1308.6	1316.1	1318.9	1318.3	1314.3
27.5°	1261.9	1264.0	1247.7	1231.6	1217.2	1200.9	1195.4
30°	1229.1	1203.6	1158.1	1132.3	1094.4	1064.3	1076.5
32.5°	1142.9	1092.2	1041.1	984.7	938.0	924.8	911.4
35°	975.4	886.2	834.1	773.4	749.1	724.8	708.1
37.5°	789.2	720.2	658.2	618.5	594.2	578.9	570.6
40°	682.4	620.1	569.2	537.0	518.5	501.2	498.8
42.5°	597.1	539.3	501.0	475.4	457.6	450.3	444.9
45°	489.1	448.7	422.9	404.7	392.9	388.3	382.3
47.5°	414.0	385.5	366.1	353.7	344.8	341.4	340.9
50°	372.0	348.3	334.1	324.3	317.3	316.2	311.3
52.5°	340.4	319.9	308.8	300.3	295.2	291.8	290.4
55°	295.5	281.9	271.9	267.0	263.1	259.7	259.7
57.5°	258.6	247.2	240.5	236.4	235.2	232.8	231.3
60°	235.8	226.0	220.9	217.2	214.8	215.1	212.4
62.5°	213.4	207.1	202.2	198.5	195.7	195.7	195.9
65°	181.7	176.9	173.3	172.1	170.2	168.1	168.7
67.5°	154.0	149.5	146.6	144.6	143.9	142.8	144.6
70°	134.1	130.8	128.7	126.8	126.2	126.5	128.0
72.5°	115.9	113.5	112.2	111.3	110.0	110.0	111.1
75°	91.0	89.2	88.0	87.1	86.7	86.7	86.7
77.5°	66.9	66.5	65.9	64.6	64.6	65.0	65.0
80°	52.8	51.9	51.6	50.9	50.1	49.4	50.9
82.5°	39.5	38.5	38.3	38.1	36.7	36.6	37.9
85°	21.2	20.4	20.6	20.4	20.4	20.0	20.0
87.5°	9.9	9.7	9.7	9.8	9.7	9.5	9.9
90°	11.7	12.2	13.1	12.7	13.1	13.5	13.1
92.5°	30.2	26.7	24.3	23.5	22.1	22.6	21.8
95°	110.3	86.3	70.0	61.5	57.4	54.2	52.4
97.5°	324.8	266.5	212.5	179.1	158.8	146.6	142.7
100°	496.1	443.2	379.1	333.4	300.5	282.9	283.3
102.5°	573.9	543.0	502.3	466.8	440.7	426.0	415.6
105°	632.6	641.2	629.4	608.6	591.4	577.0	574.7
107.5°	625.2	664.7	680.8	681.2	675.4	670.5	666.4
110°	600.9	657.9	689.5	702.2	705.8	704.9	703.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	569.1	633.0	673.6	696.7	708.0	711.4	711.5
115°	518.2	584.7	633.9	667.8	687.7	696.7	699.0
117.5°	475.2	534.9	584.9	620.2	642.9	656.0	659.0
120°	451.4	505.6	551.3	586.9	612.3	623.1	625.8
122.5°	432.2	482.4	524.8	556.6	579.3	591.3	594.7
125°	408.4	451.9	488.0	516.9	536.8	548.1	551.3
127.5°	387.6	426.7	459.6	485.4	502.3	512.5	515.5
130°	374.5	411.1	441.9	465.9	482.1	491.6	495.2
132.5°	362.3	396.3	425.6	448.1	464.4	472.8	475.3
135°	344.8	374.1	399.9	422.0	435.5	443.7	446.9
137.5°	327.9	353.2	375.5	394.1	407.8	414.7	416.8
140°	318.1	339.8	359.2	376.4	389.0	396.2	395.8
142.5°	308.7	327.5	344.4	359.0	370.3	376.8	376.3
145°	296.4	310.9	324.0	335.3	344.8	348.4	349.3
147.5°	287.2	299.0	308.2	316.8	323.2	326.7	327.0
150°	281.5	291.0	299.6	306.3	311.3	314.0	314.0
152.5°	276.1	284.5	291.6	296.9	301.6	303.2	303.2
155°	268.4	275.2	280.6	284.6	288.3	289.1	289.6
157.5°	260.9	266.2	270.4	273.9	276.6	277.3	277.3
160°	256.2	260.7	263.9	267.0	269.7	269.7	269.3
162.5°	251.1	255.3	258.1	260.2	262.5	262.5	262.1
165°	244.0	247.2	249.4	251.2	253.0	252.5	252.5
167.5°	238.4	240.3	241.9	242.7	244.0	243.5	243.5
170°	234.5	236.3	237.2	237.7	238.6	238.1	238.1
172.5°	231.2	232.7	233.2	233.3	234.2	233.5	233.1
175°	226.8	227.8	227.8	227.8	228.1	227.8	227.3
177.5°	224.3	224.7	224.7	224.3	224.7	223.9	223.9
180°	223.2	223.2	223.2	223.2	223.2	223.2	223.2

(END OF REPORT)