

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: P331919-940

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331919-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
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-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4217.1 lumens
Efficiency: N/A
Efficacy: 128.6 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

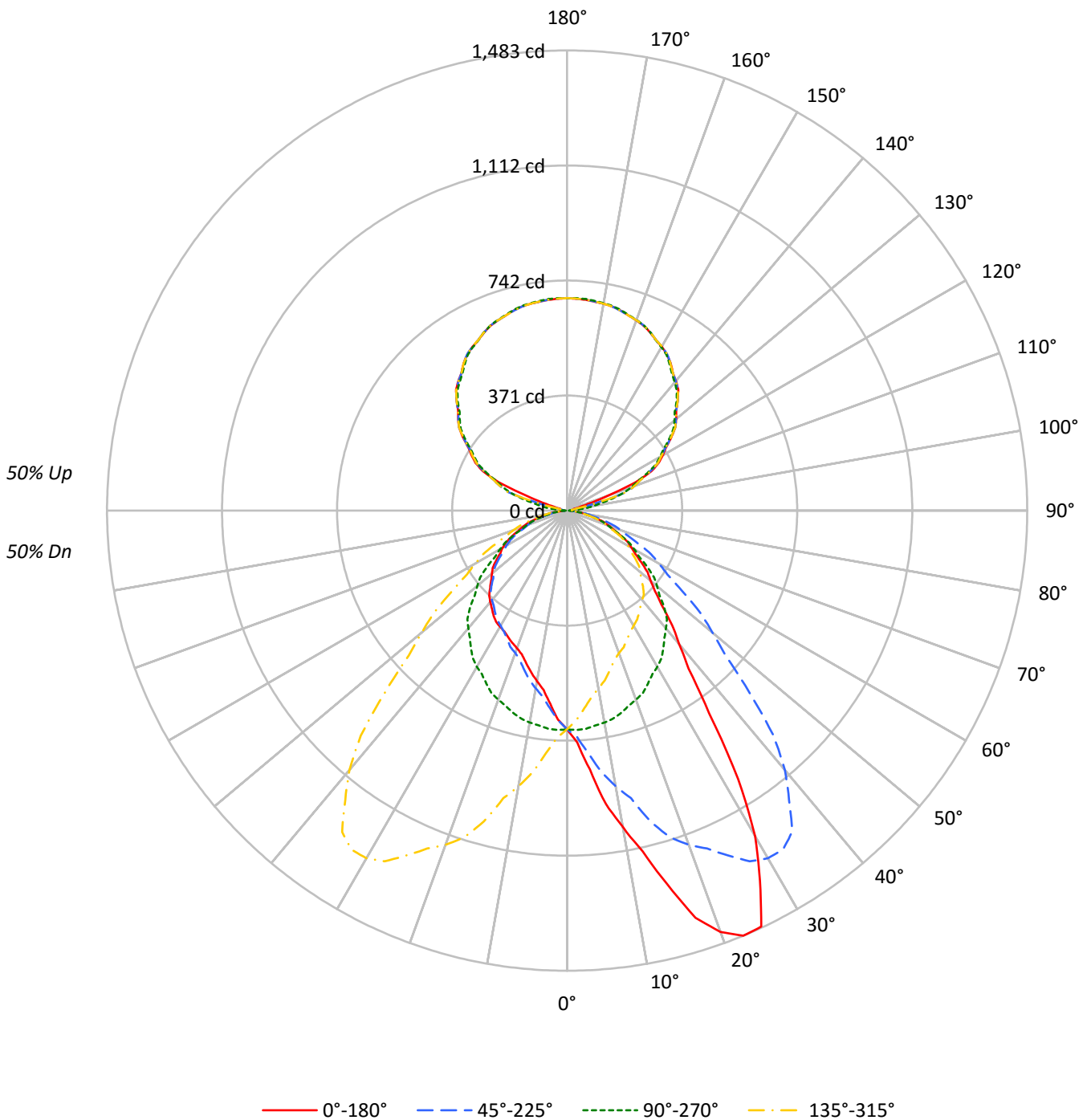
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	50					50															
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48	43					43															
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37					37															
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31					31															
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27					27															
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	24					24															
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21					21															
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21	18					18															
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	16					16															
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15					15															
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13					13															

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.6
10°-20°	222.7	5.3
20°-30°	373.7	8.9
30°-40°	423.1	10.0
40°-50°	379.5	9.0
50°-60°	306.2	7.3
60°-70°	213.4	5.1
70°-80°	112.2	2.7
80°-90°	29.3	0.7
90°-100°	24.9	0.6
100°-110°	118.6	2.8
110°-120°	284.9	6.8
120°-130°	362.8	8.6
130°-140°	387.7	9.2
140°-150°	362.5	8.6
150°-160°	292.4	6.9
160°-170°	188.7	4.5
170°-180°	65.0	1.5
0°-30°	665.8	15.8
0°-40°	1088.9	25.8
0°-60°	1774.6	42.1
0°-90°	2129.4	50.5
90°-120°	428.4	10.2
90°-150°	1541.4	36.6
90°-180°	2088.0	49.5
0°-180°	4217.1	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	0	15	0	15	8
95°	19	31	19	31	19	16
105°	22	152	22	152	22	51
115°	299	284	299	284	299	276
125°	409	401	409	401	409	365
135°	504	499	504	499	504	389
145°	581	576	581	576	581	363
155°	633	634	633	634	633	292
165°	667	669	667	669	667	188
175°	682	685	682	685	682	65
180°	685	685	685	685	685	



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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°	11.2	10.7	10.9	11.1	10.8	11.0	11.1	11.3	11.6	11.8	11.7
90°	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1	12.7	12.2	10.7
92.5°	16.9	16.8	16.6	16.5	16.3	15.9	15.2	14.4	13.7	13.0	11.9
95°	19.4	19.4	19.4	19.4	19.4	18.9	18.1	17.4	16.6	15.8	14.5
97.5°	21.0	20.9	20.7	20.6	20.5	20.0	19.1	18.2	17.3	16.4	24.5
100°	21.4	21.2	21.1	21.0	20.9	20.4	19.5	18.5	17.7	16.8	34.4
102.5°	21.8	21.6	21.4	21.1	21.0	22.3	25.1	27.8	30.7	33.4	52.7
105°	22.4	22.1	21.9	21.7	21.5	31.4	51.4	71.3	91.4	111.4	121.5
107.5°	70.3	85.3	100.4	115.5	130.6	145.4	160.2	174.8	189.5	204.1	202.5
110°	139.8	156.0	172.2	188.3	204.5	214.5	218.2	221.9	225.6	229.3	228.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	240.0	243.3	246.7	250.2	253.6	255.3	255.2	255.1	255.1	255.0	253.8
115°	299.1	298.6	298.2	297.7	297.2	296.5	295.3	294.2	293.1	291.9	290.9
117.5°	332.3	332.2	332.1	332.0	331.9	331.4	330.5	329.6	328.7	327.7	327.3
120°	355.0	355.0	355.0	355.0	355.0	354.5	353.7	352.8	351.9	350.9	350.6
122.5°	377.4	377.3	377.2	377.1	377.0	376.7	376.0	375.4	374.8	374.2	373.7
125°	408.9	408.7	408.5	408.2	408.0	407.8	407.5	407.3	407.1	406.9	406.4
127.5°	439.3	439.4	439.7	439.9	440.1	440.1	439.7	439.3	439.0	438.6	438.1
130°	458.8	459.0	459.2	459.4	459.7	459.5	459.1	458.6	458.2	457.7	457.3
132.5°	476.6	477.0	477.2	477.6	478.0	477.9	477.4	477.0	476.5	476.1	475.6
135°	504.0	504.4	504.7	505.1	505.3	505.3	505.1	504.7	504.4	504.0	503.5
137.5°	529.8	529.9	530.2	530.4	530.7	530.5	529.9	529.4	528.9	528.3	528.1
140°	545.2	545.5	545.6	545.9	546.1	546.0	545.5	545.1	544.7	544.2	543.9
142.5°	559.5	559.7	560.1	560.4	560.7	560.7	560.4	560.0	559.6	559.3	558.9
145°	581.3	581.3	581.3	581.3	581.3	581.2	580.9	580.8	580.5	580.3	580.1
147.5°	597.6	598.2	598.6	599.1	599.7	599.9	599.6	599.4	599.1	599.0	598.7
150°	609.8	610.1	610.5	610.8	611.2	611.2	611.0	610.7	610.6	610.3	610.1
152.5°	619.6	620.1	620.6	621.2	621.6	621.7	621.3	620.9	620.5	620.1	619.9
155°	633.2	633.9	634.5	635.3	635.9	636.0	635.4	634.8	634.3	633.7	633.6
157.5°	644.7	645.6	646.5	647.3	648.2	648.4	647.6	646.9	646.3	645.6	645.7
160°	652.0	652.8	653.6	654.4	655.1	655.2	654.5	653.9	653.2	652.6	652.6
162.5°	659.0	659.6	660.3	661.0	661.7	661.7	660.9	660.1	659.4	658.6	658.7
165°	667.3	668.1	668.9	669.7	670.5	670.4	669.5	668.6	667.7	666.7	666.9
167.5°	673.2	674.2	675.1	676.0	676.9	676.9	676.0	675.1	674.2	673.2	673.2
170°	676.9	677.9	678.8	679.7	680.6	680.6	679.7	678.8	677.9	676.9	676.9
172.5°	678.9	679.9	681.0	682.0	683.0	683.0	682.1	681.2	680.3	679.4	679.3
175°	682.0	683.0	683.9	684.7	685.6	685.7	684.9	684.1	683.3	682.5	682.4
177.5°	683.0	683.9	684.7	685.6	686.5	686.6	685.9	685.2	684.5	683.8	683.7
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



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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°	11.9	11.9	10.8	9.5	8.7	7.7	7.4	6.7	6.3	6.6	6.5
90°	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5	1.6	2.8	3.9
92.5°	10.8	9.7	8.6	8.2	8.5	8.8	9.2	9.5	9.2	8.8	8.5
95°	13.3	12.0	10.8	12.5	17.1	21.8	26.4	31.0	26.4	21.8	17.1
97.5°	32.6	40.8	49.0	54.0	56.1	58.2	60.3	62.3	60.3	58.2	56.1
100°	52.1	69.6	87.3	95.0	92.7	90.5	88.2	86.0	88.2	90.5	92.7
102.5°	72.0	91.2	110.5	119.3	117.7	116.1	114.4	112.8	114.4	116.1	117.7
105°	131.7	141.9	152.0	156.5	155.2	154.1	152.8	151.6	152.8	154.1	155.2
107.5°	200.9	199.3	197.7	196.4	195.5	194.5	193.4	192.4	193.4	194.5	195.5
110°	226.9	225.6	224.4	223.3	222.4	221.5	220.6	219.7	220.6	221.5	222.4



TEST NUMBER: P331919-940

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	252.5	251.3	250.0	249.0	248.2	247.4	246.6	245.8	246.6	247.4	248.2
115°	289.9	288.9	287.8	287.0	286.3	285.6	285.0	284.3	285.0	285.6	286.3
117.5°	326.7	326.2	325.7	324.9	324.1	323.3	322.4	321.6	322.4	323.3	324.1
120°	350.3	349.9	349.6	348.9	347.9	346.9	345.8	344.8	345.8	346.9	347.9
122.5°	373.3	372.8	372.4	371.8	371.0	370.1	369.3	368.5	369.3	370.1	371.0
125°	406.0	405.6	405.1	404.4	403.5	402.6	401.7	400.7	401.7	402.6	403.5
127.5°	437.6	436.9	436.4	435.7	434.8	433.9	433.0	432.1	433.0	433.9	434.8
130°	456.8	456.4	455.9	455.2	454.3	453.4	452.5	451.7	452.5	453.4	454.3
132.5°	475.3	474.9	474.6	473.9	473.1	472.2	471.3	470.4	471.3	472.2	473.1
135°	503.1	502.7	502.2	501.7	501.0	500.2	499.6	498.9	499.6	500.2	501.0
137.5°	527.8	527.5	527.4	526.7	525.9	525.0	524.2	523.3	524.2	525.0	525.9
140°	543.5	543.1	542.9	542.3	541.6	541.0	540.3	539.6	540.3	541.0	541.6
142.5°	558.6	558.2	557.9	557.4	556.7	556.1	555.4	554.6	555.4	556.1	556.7
145°	579.9	579.6	579.4	578.9	578.1	577.3	576.5	575.7	576.5	577.3	578.1
147.5°	598.4	598.2	598.0	597.6	597.1	596.6	596.1	595.6	596.1	596.6	597.1
150°	609.8	609.7	609.4	609.1	608.8	608.4	608.1	607.8	608.1	608.4	608.8
152.5°	619.8	619.6	619.6	619.4	619.2	619.0	618.9	618.8	618.9	619.0	619.2
155°	633.5	633.4	633.3	633.3	633.6	633.7	634.0	634.2	634.0	633.7	633.6
157.5°	645.9	646.0	646.0	646.1	646.1	646.1	646.2	646.2	646.2	646.1	646.1
160°	652.7	652.8	653.0	653.1	653.2	653.4	653.4	653.5	653.4	653.4	653.2
162.5°	658.9	659.0	659.1	659.2	659.6	659.9	660.1	660.5	660.1	659.9	659.6
165°	667.0	667.1	667.2	667.4	667.8	668.2	668.4	668.8	668.4	668.2	667.8
167.5°	673.2	673.2	673.2	673.5	674.0	674.4	674.8	675.3	674.8	674.4	674.0
170°	676.9	676.9	676.9	677.2	677.6	678.1	678.5	678.9	678.5	678.1	677.6
172.5°	679.2	679.1	679.0	679.2	679.8	680.3	680.9	681.4	680.9	680.3	679.8
175°	682.3	682.2	682.1	682.3	682.9	683.4	684.0	684.6	684.0	683.4	682.9
177.5°	683.6	683.5	683.4	683.6	684.0	684.5	684.9	685.4	684.9	684.5	684.0
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331919-940

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

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°	6.5	7.0	7.0	7.6	7.6	8.2	8.3	7.8	7.9	8.8	7.8
90°	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1	13.6	14.0	14.4
92.5°	8.2	8.6	9.7	10.8	11.9	13.0	13.7	14.4	15.2	15.9	16.3
95°	12.5	10.8	12.0	13.3	14.5	15.8	16.6	17.4	18.1	18.9	19.4
97.5°	54.0	49.0	40.8	32.6	24.5	16.4	17.3	18.2	19.1	20.0	20.5
100°	95.0	87.3	69.6	52.1	34.4	16.8	17.7	18.5	19.5	20.4	20.9
102.5°	119.3	110.5	91.2	72.0	52.7	33.4	30.7	27.8	25.1	22.3	21.0
105°	156.5	152.0	141.9	131.7	121.5	111.4	91.4	71.3	51.4	31.4	21.5
107.5°	196.4	197.7	199.3	200.9	202.5	204.1	189.5	174.8	160.2	145.4	130.6
110°	223.3	224.4	225.6	226.9	228.1	229.3	225.6	221.9	218.2	214.5	204.5



TEST NUMBER: P331919-940

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	249.0	250.0	251.3	252.5	253.8	255.0	255.1	255.1	255.2	255.3	253.6
115°	287.0	287.8	288.9	289.9	290.9	291.9	293.1	294.2	295.3	296.5	297.2
117.5°	324.9	325.7	326.2	326.7	327.3	327.7	328.7	329.6	330.5	331.4	331.9
120°	348.9	349.6	349.9	350.3	350.6	350.9	351.9	352.8	353.7	354.5	355.0
122.5°	371.8	372.4	372.8	373.3	373.7	374.2	374.8	375.4	376.0	376.7	377.0
125°	404.4	405.1	405.6	406.0	406.4	406.9	407.1	407.3	407.5	407.8	408.0
127.5°	435.7	436.4	436.9	437.6	438.1	438.6	439.0	439.3	439.7	440.1	440.1
130°	455.2	455.9	456.4	456.8	457.3	457.7	458.2	458.6	459.1	459.5	459.7
132.5°	473.9	474.6	474.9	475.3	475.6	476.1	476.5	477.0	477.4	477.9	478.0
135°	501.7	502.2	502.7	503.1	503.5	504.0	504.4	504.7	505.1	505.3	505.3
137.5°	526.7	527.4	527.5	527.8	528.1	528.3	528.9	529.4	529.9	530.5	530.7
140°	542.3	542.9	543.1	543.5	543.9	544.2	544.7	545.1	545.5	546.0	546.1
142.5°	557.4	557.9	558.2	558.6	558.9	559.3	559.6	560.0	560.4	560.7	560.7
145°	578.9	579.4	579.6	579.9	580.1	580.3	580.5	580.8	580.9	581.2	581.3
147.5°	597.6	598.0	598.2	598.4	598.7	599.0	599.1	599.4	599.6	599.9	599.7
150°	609.1	609.4	609.7	609.8	610.1	610.3	610.6	610.7	611.0	611.2	611.2
152.5°	619.4	619.6	619.6	619.8	619.9	620.1	620.5	620.9	621.3	621.7	621.6
155°	633.3	633.3	633.4	633.5	633.6	633.7	634.3	634.8	635.4	636.0	635.9
157.5°	646.1	646.0	646.0	645.9	645.7	645.6	646.3	646.9	647.6	648.4	648.2
160°	653.1	653.0	652.8	652.7	652.6	652.6	653.2	653.9	654.5	655.2	655.1
162.5°	659.2	659.1	659.0	658.9	658.7	658.6	659.4	660.1	660.9	661.7	661.7
165°	667.4	667.2	667.1	667.0	666.9	666.7	667.7	668.6	669.5	670.4	670.5
167.5°	673.5	673.2	673.2	673.2	673.2	673.2	674.2	675.1	676.0	676.9	676.9
170°	677.2	676.9	676.9	676.9	676.9	676.9	677.9	678.8	679.7	680.6	680.6
172.5°	679.2	679.0	679.1	679.2	679.3	679.4	680.3	681.2	682.1	683.0	683.0
175°	682.3	682.1	682.2	682.3	682.4	682.5	683.3	684.1	684.9	685.7	685.6
177.5°	683.6	683.4	683.5	683.6	683.7	683.8	684.5	685.2	685.9	686.6	686.5
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331919-940

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

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	7.4	7.7	7.8	7.8	7.8	8.8	7.9	7.8
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1
92.5°	16.5	16.6	16.8	16.9	16.8	16.6	16.5	16.3	15.9	15.2	14.4
95°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.9	18.1	17.4
97.5°	20.6	20.7	20.9	21.0	20.9	20.7	20.6	20.5	20.0	19.1	18.2
100°	21.0	21.1	21.2	21.4	21.2	21.1	21.0	20.9	20.4	19.5	18.5
102.5°	21.1	21.4	21.6	21.8	21.6	21.4	21.1	21.0	22.3	25.1	27.8
105°	21.7	21.9	22.1	22.4	22.1	21.9	21.7	21.5	31.4	51.4	71.3
107.5°	115.5	100.4	85.3	70.3	85.3	100.4	115.5	130.6	145.4	160.2	174.8
110°	188.3	172.2	156.0	139.8	156.0	172.2	188.3	204.5	214.5	218.2	221.9



TEST NUMBER: P331919-940

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.2	246.7	243.3	240.0	243.3	246.7	250.2	253.6	255.3	255.2	255.1
115°	297.7	298.2	298.6	299.1	298.6	298.2	297.7	297.2	296.5	295.3	294.2
117.5°	332.0	332.1	332.2	332.3	332.2	332.1	332.0	331.9	331.4	330.5	329.6
120°	355.0	355.0	355.0	355.0	355.0	355.0	355.0	355.0	354.5	353.7	352.8
122.5°	377.1	377.2	377.3	377.4	377.3	377.2	377.1	377.0	376.7	376.0	375.4
125°	408.2	408.5	408.7	408.9	408.7	408.5	408.2	408.0	407.8	407.5	407.3
127.5°	439.9	439.7	439.4	439.3	439.4	439.7	439.9	440.1	440.1	439.7	439.3
130°	459.4	459.2	459.0	458.8	459.0	459.2	459.4	459.7	459.5	459.1	458.6
132.5°	477.6	477.2	477.0	476.6	477.0	477.2	477.6	478.0	477.9	477.4	477.0
135°	505.1	504.7	504.4	504.0	504.4	504.7	505.1	505.3	505.3	505.1	504.7
137.5°	530.4	530.2	529.9	529.8	529.9	530.2	530.4	530.7	530.5	529.9	529.4
140°	545.9	545.6	545.5	545.2	545.5	545.6	545.9	546.1	546.0	545.5	545.1
142.5°	560.4	560.1	559.7	559.5	559.7	560.1	560.4	560.7	560.7	560.4	560.0
145°	581.3	581.3	581.3	581.3	581.3	581.3	581.3	581.3	581.2	580.9	580.8
147.5°	599.1	598.6	598.2	597.6	598.2	598.6	599.1	599.7	599.9	599.6	599.4
150°	610.8	610.5	610.1	609.8	610.1	610.5	610.8	611.2	611.2	611.0	610.7
152.5°	621.2	620.6	620.1	619.6	620.1	620.6	621.2	621.6	621.7	621.3	620.9
155°	635.3	634.5	633.9	633.2	633.9	634.5	635.3	635.9	636.0	635.4	634.8
157.5°	647.3	646.5	645.6	644.7	645.6	646.5	647.3	648.2	648.4	647.6	646.9
160°	654.4	653.6	652.8	652.0	652.8	653.6	654.4	655.1	655.2	654.5	653.9
162.5°	661.0	660.3	659.6	659.0	659.6	660.3	661.0	661.7	661.7	660.9	660.1
165°	669.7	668.9	668.1	667.3	668.1	668.9	669.7	670.5	670.4	669.5	668.6
167.5°	676.0	675.1	674.2	673.2	674.2	675.1	676.0	676.9	676.9	676.0	675.1
170°	679.7	678.8	677.9	676.9	677.9	678.8	679.7	680.6	680.6	679.7	678.8
172.5°	682.0	681.0	679.9	678.9	679.9	681.0	682.0	683.0	683.0	682.1	681.2
175°	684.7	683.9	683.0	682.0	683.0	683.9	684.7	685.6	685.7	684.9	684.1
177.5°	685.6	684.7	683.9	683.0	683.9	684.7	685.6	686.5	686.6	685.9	685.2
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331919-940

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

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°	8.3	8.2	7.6	7.6	7.0	7.0	6.5	6.5	6.6	6.3	6.7
90°	12.7	12.2	10.7	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5
92.5°	13.7	13.0	11.9	10.8	9.7	8.6	8.2	8.5	8.8	9.2	9.5
95°	16.6	15.8	14.5	13.3	12.0	10.8	12.5	17.1	21.8	26.4	31.0
97.5°	17.3	16.4	24.5	32.6	40.8	49.0	54.0	56.1	58.2	60.3	62.3
100°	17.7	16.8	34.4	52.1	69.6	87.3	95.0	92.7	90.5	88.2	86.0
102.5°	30.7	33.4	52.7	72.0	91.2	110.5	119.3	117.7	116.1	114.4	112.8
105°	91.4	111.4	121.5	131.7	141.9	152.0	156.5	155.2	154.1	152.8	151.6
107.5°	189.5	204.1	202.5	200.9	199.3	197.7	196.4	195.5	194.5	193.4	192.4
110°	225.6	229.3	228.1	226.9	225.6	224.4	223.3	222.4	221.5	220.6	219.7



TEST NUMBER: P331919-940

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	255.1	255.0	253.8	252.5	251.3	250.0	249.0	248.2	247.4	246.6	245.8
115°	293.1	291.9	290.9	289.9	288.9	287.8	287.0	286.3	285.6	285.0	284.3
117.5°	328.7	327.7	327.3	326.7	326.2	325.7	324.9	324.1	323.3	322.4	321.6
120°	351.9	350.9	350.6	350.3	349.9	349.6	348.9	347.9	346.9	345.8	344.8
122.5°	374.8	374.2	373.7	373.3	372.8	372.4	371.8	371.0	370.1	369.3	368.5
125°	407.1	406.9	406.4	406.0	405.6	405.1	404.4	403.5	402.6	401.7	400.7
127.5°	439.0	438.6	438.1	437.6	436.9	436.4	435.7	434.8	433.9	433.0	432.1
130°	458.2	457.7	457.3	456.8	456.4	455.9	455.2	454.3	453.4	452.5	451.7
132.5°	476.5	476.1	475.6	475.3	474.9	474.6	473.9	473.1	472.2	471.3	470.4
135°	504.4	504.0	503.5	503.1	502.7	502.2	501.7	501.0	500.2	499.6	498.9
137.5°	528.9	528.3	528.1	527.8	527.5	527.4	526.7	525.9	525.0	524.2	523.3
140°	544.7	544.2	543.9	543.5	543.1	542.9	542.3	541.6	541.0	540.3	539.6
142.5°	559.6	559.3	558.9	558.6	558.2	557.9	557.4	556.7	556.1	555.4	554.6
145°	580.5	580.3	580.1	579.9	579.6	579.4	578.9	578.1	577.3	576.5	575.7
147.5°	599.1	599.0	598.7	598.4	598.2	598.0	597.6	597.1	596.6	596.1	595.6
150°	610.6	610.3	610.1	609.8	609.7	609.4	609.1	608.8	608.4	608.1	607.8
152.5°	620.5	620.1	619.9	619.8	619.6	619.6	619.4	619.2	619.0	618.9	618.8
155°	634.3	633.7	633.6	633.5	633.4	633.3	633.3	633.6	633.7	634.0	634.2
157.5°	646.3	645.6	645.7	645.9	646.0	646.0	646.1	646.1	646.1	646.2	646.2
160°	653.2	652.6	652.6	652.7	652.8	653.0	653.1	653.2	653.4	653.4	653.5
162.5°	659.4	658.6	658.7	658.9	659.0	659.1	659.2	659.6	659.9	660.1	660.5
165°	667.7	666.7	666.9	667.0	667.1	667.2	667.4	667.8	668.2	668.4	668.8
167.5°	674.2	673.2	673.2	673.2	673.2	673.2	673.5	674.0	674.4	674.8	675.3
170°	677.9	676.9	676.9	676.9	676.9	676.9	677.2	677.6	678.1	678.5	678.9
172.5°	680.3	679.4	679.3	679.2	679.1	679.0	679.2	679.8	680.3	680.9	681.4
175°	683.3	682.5	682.4	682.3	682.2	682.1	682.3	682.9	683.4	684.0	684.6
177.5°	684.5	683.8	683.7	683.6	683.5	683.4	683.6	684.0	684.5	684.9	685.4
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331919-940

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

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°	7.4	7.7	8.7	9.5	10.8	11.9	11.9	11.7	11.8	11.6	11.3
90°	1.6	2.8	3.9	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1
92.5°	9.2	8.8	8.5	8.2	8.6	9.7	10.8	11.9	13.0	13.7	14.4
95°	26.4	21.8	17.1	12.5	10.8	12.0	13.3	14.5	15.8	16.6	17.4
97.5°	60.3	58.2	56.1	54.0	49.0	40.8	32.6	24.5	16.4	17.3	18.2
100°	88.2	90.5	92.7	95.0	87.3	69.6	52.1	34.4	16.8	17.7	18.5
102.5°	114.4	116.1	117.7	119.3	110.5	91.2	72.0	52.7	33.4	30.7	27.8
105°	152.8	154.1	155.2	156.5	152.0	141.9	131.7	121.5	111.4	91.4	71.3
107.5°	193.4	194.5	195.5	196.4	197.7	199.3	200.9	202.5	204.1	189.5	174.8
110°	220.6	221.5	222.4	223.3	224.4	225.6	226.9	228.1	229.3	225.6	221.9



TEST NUMBER: P331919-940

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.6	247.4	248.2	249.0	250.0	251.3	252.5	253.8	255.0	255.1	255.1
115°	285.0	285.6	286.3	287.0	287.8	288.9	289.9	290.9	291.9	293.1	294.2
117.5°	322.4	323.3	324.1	324.9	325.7	326.2	326.7	327.3	327.7	328.7	329.6
120°	345.8	346.9	347.9	348.9	349.6	349.9	350.3	350.6	350.9	351.9	352.8
122.5°	369.3	370.1	371.0	371.8	372.4	372.8	373.3	373.7	374.2	374.8	375.4
125°	401.7	402.6	403.5	404.4	405.1	405.6	406.0	406.4	406.9	407.1	407.3
127.5°	433.0	433.9	434.8	435.7	436.4	436.9	437.6	438.1	438.6	439.0	439.3
130°	452.5	453.4	454.3	455.2	455.9	456.4	456.8	457.3	457.7	458.2	458.6
132.5°	471.3	472.2	473.1	473.9	474.6	474.9	475.3	475.6	476.1	476.5	477.0
135°	499.6	500.2	501.0	501.7	502.2	502.7	503.1	503.5	504.0	504.4	504.7
137.5°	524.2	525.0	525.9	526.7	527.4	527.5	527.8	528.1	528.3	528.9	529.4
140°	540.3	541.0	541.6	542.3	542.9	543.1	543.5	543.9	544.2	544.7	545.1
142.5°	555.4	556.1	556.7	557.4	557.9	558.2	558.6	558.9	559.3	559.6	560.0
145°	576.5	577.3	578.1	578.9	579.4	579.6	579.9	580.1	580.3	580.5	580.8
147.5°	596.1	596.6	597.1	597.6	598.0	598.2	598.4	598.7	599.0	599.1	599.4
150°	608.1	608.4	608.8	609.1	609.4	609.7	609.8	610.1	610.3	610.6	610.7
152.5°	618.9	619.0	619.2	619.4	619.6	619.6	619.8	619.9	620.1	620.5	620.9
155°	634.0	633.7	633.6	633.3	633.3	633.4	633.5	633.6	633.7	634.3	634.8
157.5°	646.2	646.1	646.1	646.1	646.0	646.0	645.9	645.7	645.6	646.3	646.9
160°	653.4	653.4	653.2	653.1	653.0	652.8	652.7	652.6	652.6	653.2	653.9
162.5°	660.1	659.9	659.6	659.2	659.1	659.0	658.9	658.7	658.6	659.4	660.1
165°	668.4	668.2	667.8	667.4	667.2	667.1	667.0	666.9	666.7	667.7	668.6
167.5°	674.8	674.4	674.0	673.5	673.2	673.2	673.2	673.2	673.2	674.2	675.1
170°	678.5	678.1	677.6	677.2	676.9	676.9	676.9	676.9	676.9	677.9	678.8
172.5°	680.9	680.3	679.8	679.2	679.0	679.1	679.2	679.3	679.4	680.3	681.2
175°	684.0	683.4	682.9	682.3	682.1	682.2	682.3	682.4	682.5	683.3	684.1
177.5°	684.9	684.5	684.0	683.6	683.4	683.5	683.6	683.7	683.8	684.5	685.2
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



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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	10.8	11.1	10.9	10.7	11.2
90°	13.6	14.0	14.4	14.6	14.8	15.1	15.2
92.5°	15.2	15.9	16.3	16.5	16.6	16.8	16.9
95°	18.1	18.9	19.4	19.4	19.4	19.4	19.4
97.5°	19.1	20.0	20.5	20.6	20.7	20.9	21.0
100°	19.5	20.4	20.9	21.0	21.1	21.2	21.4
102.5°	25.1	22.3	21.0	21.1	21.4	21.6	21.8
105°	51.4	31.4	21.5	21.7	21.9	22.1	22.4
107.5°	160.2	145.4	130.6	115.5	100.4	85.3	70.3
110°	218.2	214.5	204.5	188.3	172.2	156.0	139.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	255.2	255.3	253.6	250.2	246.7	243.3	240.0
115°	295.3	296.5	297.2	297.7	298.2	298.6	299.1
117.5°	330.5	331.4	331.9	332.0	332.1	332.2	332.3
120°	353.7	354.5	355.0	355.0	355.0	355.0	355.0
122.5°	376.0	376.7	377.0	377.1	377.2	377.3	377.4
125°	407.5	407.8	408.0	408.2	408.5	408.7	408.9
127.5°	439.7	440.1	440.1	439.9	439.7	439.4	439.3
130°	459.1	459.5	459.7	459.4	459.2	459.0	458.8
132.5°	477.4	477.9	478.0	477.6	477.2	477.0	476.6
135°	505.1	505.3	505.3	505.1	504.7	504.4	504.0
137.5°	529.9	530.5	530.7	530.4	530.2	529.9	529.8
140°	545.5	546.0	546.1	545.9	545.6	545.5	545.2
142.5°	560.4	560.7	560.7	560.4	560.1	559.7	559.5
145°	580.9	581.2	581.3	581.3	581.3	581.3	581.3
147.5°	599.6	599.9	599.7	599.1	598.6	598.2	597.6
150°	611.0	611.2	611.2	610.8	610.5	610.1	609.8
152.5°	621.3	621.7	621.6	621.2	620.6	620.1	619.6
155°	635.4	636.0	635.9	635.3	634.5	633.9	633.2
157.5°	647.6	648.4	648.2	647.3	646.5	645.6	644.7
160°	654.5	655.2	655.1	654.4	653.6	652.8	652.0
162.5°	660.9	661.7	661.7	661.0	660.3	659.6	659.0
165°	669.5	670.4	670.5	669.7	668.9	668.1	667.3
167.5°	676.0	676.9	676.9	676.0	675.1	674.2	673.2
170°	679.7	680.6	680.6	679.7	678.8	677.9	676.9
172.5°	682.1	683.0	683.0	682.0	681.0	679.9	678.9
175°	684.9	685.7	685.6	684.7	683.9	683.0	682.0
177.5°	685.9	686.6	686.5	685.6	684.7	683.9	683.0
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6

(END OF REPORT)