

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: P331919-935

Luminaire Tested: **S123DIP-S560D585U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331919-935  
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-S560D585U935-4F0-1E-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: 4071.8 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

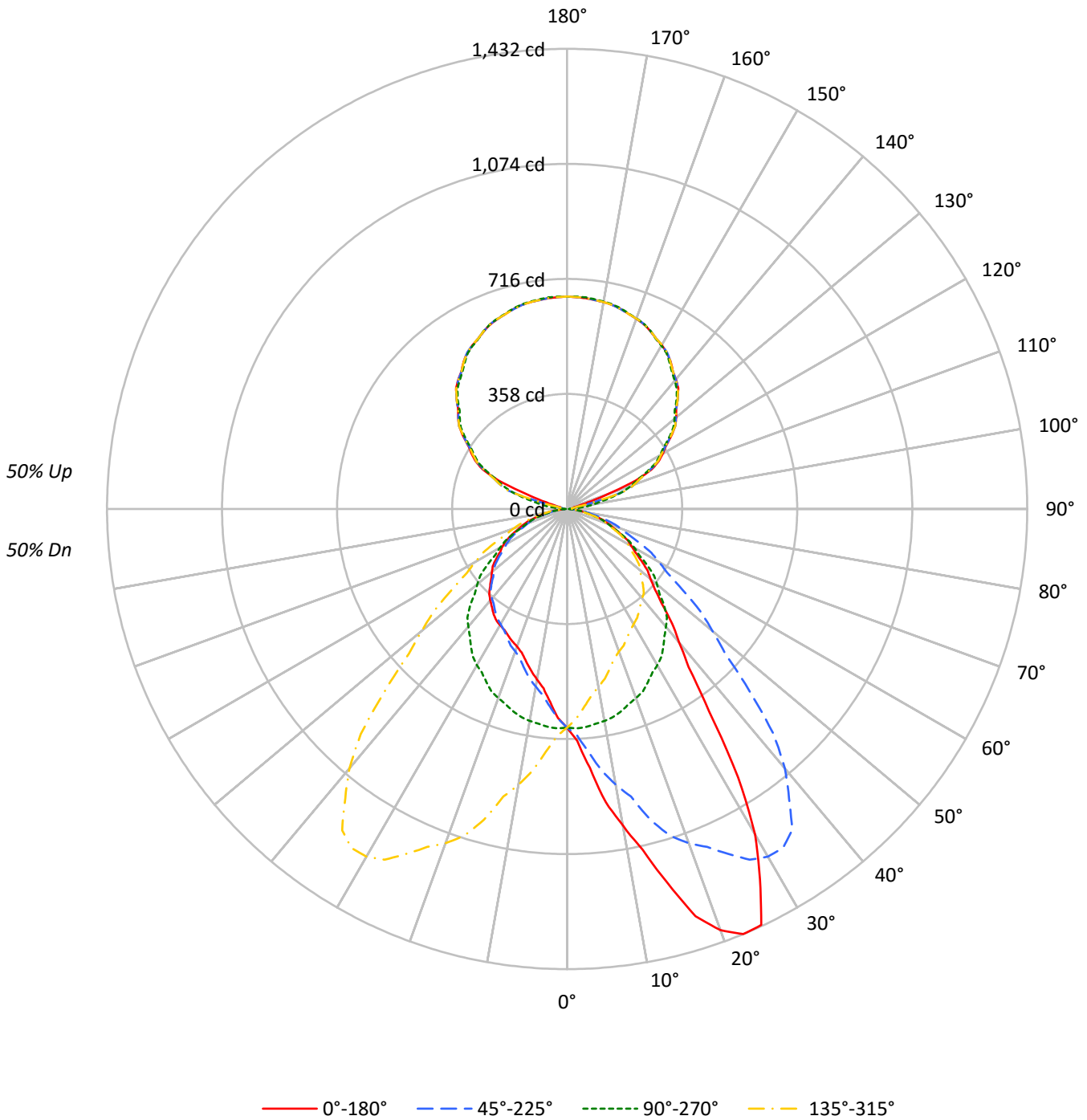
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	7326	7326	7326	7326
5°	8737	7358	6521	7358
10°	10935	7321	5889	7321
15°	13412	7261	5483	7261
20°	15978	7170	5220	7170
25°	16966	7058	5162	7058
30°	14542	6976	5189	6976
35°	10113	6859	5243	6859
40°	7617	6724	5227	6724
45°	6325	6520	5160	6520
50°	5667	6107	5114	6107
55°	5296	5662	5050	5662
60°	4969	5197	4997	5197
65°	4669	4737	4837	4737
70°	4378	4214	4607	4214
75°	3922	3689	4225	3689
80°	3434	3025	3639	3025
85°	2692	2198	2445	2198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.6
10°-20°	215.0	5.3
20°-30°	360.8	8.9
30°-40°	408.6	10.0
40°-50°	366.4	9.0
50°-60°	295.7	7.3
60°-70°	206.0	5.1
70°-80°	108.3	2.7
80°-90°	28.3	0.7
90°-100°	24.0	0.6
100°-110°	114.5	2.8
110°-120°	275.1	6.8
120°-130°	350.3	8.6
130°-140°	374.3	9.2
140°-150°	350.0	8.6
150°-160°	282.3	6.9
160°-170°	182.2	4.5
170°-180°	62.8	1.5
0°-30°	642.9	15.8
0°-40°	1051.4	25.8
0°-60°	1713.5	42.1
0°-90°	2056.1	50.5
90°-120°	413.7	10.2
90°-150°	1488.3	36.6
90°-180°	2016.0	49.5
0°-180°	4071.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	681	681	681	681	681	
5°	809	681	604	681	809	84
15°	1204	652	492	652	1204	348
25°	1428	594	435	594	1428	626
35°	770	522	399	522	770	500
45°	416	428	339	428	416	329
55°	282	302	269	302	282	253
65°	183	186	190	186	183	183
75°	94	89	102	89	94	101
85°	22	18	20	18	22	26
90°	15	0	15	0	15	8
95°	19	30	19	30	19	16
105°	22	146	22	146	22	49
115°	289	274	289	274	289	267
125°	395	387	395	387	395	353
135°	487	482	487	482	487	375
145°	561	556	561	556	561	350
155°	611	612	611	612	611	282
165°	644	646	644	646	644	182
175°	658	661	658	661	658	63
180°	661	661	661	661	661	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	722.3	721.8	720.5	721.5	719.4	716.5	716.3	713.6	705.9	705.4	703.4
5°	808.6	805.9	805.6	805.3	800.6	794.4	782.5	781.5	765.7	757.8	748.2
7.5°	920.3	921.7	916.9	912.7	898.5	889.2	876.5	860.2	840.8	821.0	807.9
10°	1000.5	1011.3	997.8	988.6	980.1	963.9	945.1	921.7	898.3	870.9	850.2
12.5°	1086.5	1091.8	1089.2	1080.4	1067.1	1042.5	1009.2	983.4	961.8	916.3	897.9
15°	1203.6	1223.7	1210.9	1181.2	1181.9	1158.5	1114.9	1067.1	1041.7	1001.8	947.4
17.5°	1328.4	1330.9	1325.4	1300.7	1284.2	1252.1	1211.9	1166.1	1114.6	1066.3	1008.6
20°	1394.9	1392.9	1381.4	1368.5	1340.1	1315.1	1271.2	1220.1	1154.2	1106.6	1043.7
22.5°	1431.8	1428.5	1423.1	1412.3	1388.7	1361.8	1322.4	1266.5	1203.8	1138.3	1065.6
25°	1428.5	1432.8	1433.5	1430.5	1422.3	1406.1	1375.1	1330.6	1267.9	1183.9	1108.0
27.5°	1299.2	1305.3	1322.9	1338.6	1356.1	1373.8	1371.5	1349.4	1303.0	1230.4	1137.6
30°	1170.0	1156.8	1189.5	1230.6	1258.7	1308.1	1335.8	1337.5	1311.5	1249.1	1158.7
32.5°	990.6	1005.1	1019.5	1070.2	1131.5	1187.1	1242.2	1286.6	1291.7	1250.2	1171.1
35°	769.6	787.8	814.2	840.6	906.5	963.2	1060.1	1144.6	1211.9	1220.7	1172.3
37.5°	620.2	629.2	645.8	672.3	715.4	782.7	857.7	964.4	1061.9	1134.4	1137.6
40°	542.1	544.8	563.5	583.7	618.6	674.0	741.7	835.9	952.7	1054.0	1096.1
42.5°	483.5	489.4	497.3	516.7	544.5	586.2	649.0	727.0	834.0	950.5	1033.0
45°	415.5	422.1	427.1	439.9	459.7	487.7	531.6	602.8	684.2	804.6	915.8
47.5°	370.5	371.0	374.7	384.4	397.9	419.0	450.0	495.7	570.5	668.0	782.2
50°	338.4	343.6	344.9	352.5	363.1	378.6	404.3	443.2	504.5	590.3	695.2
52.5°	315.6	317.2	320.9	326.4	335.6	347.7	370.0	400.5	448.6	521.7	618.1
55°	282.2	282.2	285.9	290.2	295.5	306.3	321.2	343.6	380.2	437.0	516.8
57.5°	251.4	253.0	255.6	256.9	261.4	268.6	281.0	298.1	325.4	369.0	432.5
60°	230.8	233.8	233.5	236.1	240.0	245.6	256.2	270.1	294.5	329.4	382.9
62.5°	212.9	212.7	212.7	215.8	219.7	225.1	232.0	243.9	264.7	295.7	341.1
65°	183.3	182.7	185.0	187.0	188.3	192.3	197.5	208.1	222.0	245.0	280.3
67.5°	157.1	155.2	156.4	157.1	159.4	162.5	167.4	173.9	184.9	203.5	230.1
70°	139.1	137.5	137.2	137.8	139.8	142.2	145.8	152.1	162.2	177.1	196.6
72.5°	120.7	119.6	119.5	121.0	121.9	123.4	126.0	131.7	139.8	150.9	169.1
75°	94.3	94.3	94.3	94.6	95.7	96.9	98.9	101.9	108.1	116.1	128.3
77.5°	70.7	70.6	70.3	70.2	71.6	72.2	72.7	75.4	79.0	84.3	93.2
80°	55.4	53.7	54.4	55.4	56.1	56.4	57.3	58.0	61.0	64.0	70.3
82.5°	41.2	39.8	39.9	41.4	41.6	41.8	42.9	43.8	44.9	47.6	51.0
85°	21.8	21.8	22.1	22.1	22.4	22.1	23.1	23.4	23.4	25.1	27.0
87.5°	10.8	10.3	10.5	10.8	10.4	10.6	10.8	10.9	11.2	11.4	11.3
90°	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7	12.2	11.8	10.3
92.5°	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9	13.3	12.6	11.5
95°	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8	16.0	15.2	14.0
97.5°	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6	16.7	15.8	23.7
100°	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9	17.0	16.2	33.2
102.5°	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9	29.6	32.3	50.9
105°	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9	88.3	107.5	117.4
107.5°	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8	183.0	197.1	195.5
110°	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3	217.8	221.4	220.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3	246.3	246.2	245.0
115°	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0	283.0	281.9	280.9
117.5°	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2	317.4	316.4	316.0
120°	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6	339.8	338.8	338.5
122.5°	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5	361.9	361.3	360.8
125°	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3	393.0	392.9	392.4
127.5°	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2	423.9	423.5	423.0
130°	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8	442.4	442.0	441.5
132.5°	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5	460.1	459.7	459.3
135°	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3	487.0	486.6	486.2
137.5°	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2	510.7	510.1	509.9
140°	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3	525.9	525.5	525.1
142.5°	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7	540.4	540.0	539.7
145°	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8	560.5	560.3	560.1
147.5°	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8	578.5	578.3	578.1
150°	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7	589.5	589.3	589.1
152.5°	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5	599.1	598.7	598.6
155°	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9	612.4	611.9	611.7
157.5°	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7	624.1	623.4	623.5
160°	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4	630.7	630.1	630.2
162.5°	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4	636.7	635.9	636.0
165°	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6	644.7	643.8	643.9
167.5°	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9	651.0	650.1	650.1
170°	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4	654.5	653.6	653.6
172.5°	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7	656.9	656.0	655.9
175°	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6	659.8	659.0	658.9
177.5°	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6	660.9	660.2	660.1
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	701.7	699.6	697.5	693.8	690.6	686.1	684.8	683.3	678.6	674.2	671.1
5°	744.6	736.7	725.1	714.5	706.0	694.5	687.9	681.0	671.1	662.2	654.9
7.5°	789.5	773.9	756.0	736.6	718.5	701.0	687.0	674.5	660.6	647.5	637.3
10°	825.1	802.6	777.6	750.5	727.5	705.0	686.2	669.8	651.9	636.5	623.5
12.5°	865.6	832.4	797.9	765.0	737.7	706.6	683.9	662.9	642.7	624.1	609.6
15°	913.8	871.6	830.7	785.5	743.9	705.0	678.0	651.6	628.2	609.1	590.6
17.5°	957.5	909.7	855.8	800.9	750.8	704.6	666.8	637.0	607.7	584.3	565.8
20°	982.3	927.9	866.9	809.9	754.5	703.0	661.5	625.9	594.3	569.5	548.7
22.5°	1003.8	940.0	876.9	816.0	754.2	698.8	651.8	615.1	580.7	556.6	534.5
25°	1025.9	949.7	886.4	814.9	745.9	688.5	635.8	594.3	559.9	531.6	508.9
27.5°	1044.9	949.1	873.9	796.9	732.9	675.4	619.1	574.5	538.0	507.2	484.1
30°	1057.6	950.4	861.0	784.8	720.2	660.8	606.1	561.3	523.0	491.6	469.9
32.5°	1065.5	949.6	849.1	767.9	700.2	647.6	592.1	545.7	506.4	475.6	454.6
35°	1070.1	943.7	828.7	733.1	667.8	616.6	570.2	522.0	480.8	452.1	428.3
37.5°	1060.8	931.6	804.9	699.4	627.9	577.6	538.5	497.5	458.1	426.5	406.0
40°	1046.3	923.7	786.4	675.7	600.5	552.0	518.8	478.5	439.5	409.6	390.5
42.5°	1018.6	907.6	766.2	649.3	572.0	523.5	492.8	459.3	422.4	394.3	375.1
45°	951.1	872.5	735.7	609.8	529.9	479.8	452.8	428.3	395.0	367.6	351.2
47.5°	857.2	819.8	691.6	568.0	486.0	437.8	409.7	390.0	365.7	343.6	327.8
50°	792.1	776.6	661.9	539.5	456.7	409.6	382.5	364.7	347.2	325.1	310.6
52.5°	716.9	726.4	627.0	510.0	426.9	380.6	355.1	341.0	325.1	306.9	294.3
55°	611.1	645.7	566.9	460.4	382.5	338.4	314.3	301.7	292.5	279.0	268.1
57.5°	512.0	555.9	501.8	409.2	338.9	300.8	277.8	264.1	258.1	251.1	242.5
60°	453.1	496.6	455.4	375.0	309.6	273.4	253.0	241.4	235.5	230.5	223.3
62.5°	400.6	444.6	410.0	340.1	280.9	247.3	229.5	218.2	213.5	210.9	204.7
65°	328.5	366.4	343.3	285.9	239.7	210.1	193.9	186.0	181.7	180.7	176.8
67.5°	267.3	296.2	279.4	237.1	200.8	175.1	161.4	154.7	151.4	151.1	148.1
70°	227.2	254.3	241.4	203.1	171.8	151.7	139.8	133.9	131.9	131.6	129.9
72.5°	196.0	214.9	204.7	172.8	148.6	130.4	121.6	115.4	113.1	113.7	112.5
75°	145.1	159.3	153.3	131.2	111.8	99.9	92.6	88.7	86.7	87.7	86.4
77.5°	104.4	113.4	108.1	92.7	80.8	72.2	66.8	64.4	62.6	62.5	61.9
80°	78.8	84.1	81.1	71.9	62.0	54.8	50.5	48.8	47.8	47.5	47.2
82.5°	56.1	60.6	57.1	50.8	44.1	39.7	37.3	35.1	34.4	34.5	34.3
85°	28.3	30.0	28.7	24.7	22.1	20.1	18.8	17.8	17.1	17.5	16.8
87.5°	11.5	11.5	10.4	9.1	8.4	7.4	7.1	6.5	6.1	6.4	6.3
90°	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5	1.5	2.7	3.8
92.5°	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1	8.9	8.5	8.2
95°	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0	25.5	21.0	16.5
97.5°	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2	58.2	56.2	54.2
100°	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0	85.2	87.4	89.5
102.5°	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9	110.5	112.1	113.7
105°	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4	147.6	148.8	149.9
107.5°	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8	186.8	187.8	188.7
110°	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2	213.0	213.9	214.7





TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3	238.1	238.8	239.6
115°	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5	275.2	275.8	276.5
117.5°	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6	311.3	312.2	313.0
120°	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9	333.9	334.9	335.9
122.5°	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8	356.5	357.3	358.2
125°	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9	387.9	388.7	389.6
127.5°	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2	418.1	419.0	419.8
130°	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1	437.0	437.8	438.7
132.5°	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2	455.0	455.9	456.8
135°	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7	482.4	483.0	483.7
137.5°	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3	506.2	507.0	507.8
140°	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0	521.7	522.4	523.0
142.5°	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5	536.2	536.9	537.5
145°	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9	556.6	557.4	558.2
147.5°	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1	575.6	576.1	576.5
150°	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9	587.2	587.5	587.8
152.5°	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4	597.6	597.7	597.9
155°	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3	612.2	611.9	611.7
157.5°	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0	624.0	623.9	623.9
160°	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0	630.9	630.9	630.7
162.5°	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7	637.4	637.1	636.9
165°	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8	645.4	645.1	644.8
167.5°	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0	651.6	651.2	650.7
170°	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6	655.1	654.7	654.3
172.5°	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0	657.5	656.9	656.3
175°	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0	660.5	659.9	659.4
177.5°	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8	661.3	660.9	660.5
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	669.3	667.4	664.8	660.8	657.6	652.6	652.6	653.4	653.4	653.2	652.6
5°	648.9	644.0	638.1	631.2	623.9	616.6	615.4	612.7	610.7	609.4	607.8
7.5°	627.5	618.8	610.1	600.5	591.6	584.3	579.2	575.0	572.2	569.4	567.2
10°	613.0	602.1	591.9	581.7	570.5	561.5	555.9	552.0	549.1	546.4	545.1
12.5°	595.9	583.4	572.1	562.4	550.2	541.0	535.6	533.8	530.3	524.8	521.9
15°	570.8	559.3	545.8	530.9	525.0	513.8	507.5	504.5	502.6	498.3	497.0
17.5°	549.4	534.3	519.1	508.0	497.0	487.9	484.4	480.7	478.1	474.6	473.6
20°	532.3	518.8	504.9	493.0	481.5	471.6	468.6	466.0	463.3	461.7	460.4
22.5°	514.8	501.3	489.8	478.7	466.4	459.9	456.7	453.8	451.9	450.8	449.5
25°	490.3	478.5	465.6	455.7	445.8	441.5	439.5	437.9	436.6	435.0	434.6
27.5°	468.5	455.6	445.1	435.8	428.8	425.2	423.3	422.5	422.8	423.4	423.7
30°	452.1	440.2	431.6	423.7	417.2	413.9	413.5	413.5	414.8	415.2	415.9
32.5°	437.0	427.3	418.7	411.0	406.0	403.8	405.1	405.1	406.1	407.0	408.2
35°	415.2	406.6	400.0	393.4	389.1	390.1	390.7	391.4	393.0	395.0	396.4
37.5°	394.3	386.8	380.0	374.8	372.8	374.6	376.2	377.5	379.5	381.0	382.3
40°	379.2	373.6	367.0	362.4	363.1	364.0	365.4	367.0	368.7	369.6	371.0
42.5°	365.2	359.4	354.4	350.5	351.5	352.8	353.5	354.4	356.3	358.1	358.9
45°	344.0	339.3	334.7	332.4	333.0	333.7	334.4	335.4	337.0	338.4	338.6
47.5°	320.0	316.8	313.7	311.4	312.5	312.2	313.1	315.2	315.7	316.5	318.3
50°	304.7	301.7	298.1	297.5	297.5	297.5	297.7	300.4	300.4	301.7	303.1
52.5°	287.8	285.9	283.6	282.4	281.9	281.9	283.3	284.6	285.1	287.0	288.3
55°	262.8	260.8	258.9	257.9	257.2	257.9	260.5	261.1	262.8	263.8	264.8
57.5°	236.8	235.2	233.7	233.2	233.0	233.8	235.3	237.3	237.7	240.7	242.2
60°	219.6	217.3	216.0	216.0	215.3	218.3	217.7	220.9	221.6	223.6	225.9
62.5°	201.9	198.8	198.3	198.3	199.2	200.1	201.0	202.5	204.2	206.7	208.4
65°	173.5	171.8	174.1	173.7	173.1	175.1	175.1	176.8	178.7	181.1	184.7
67.5°	146.5	145.6	145.9	145.9	146.8	147.9	148.9	150.3	152.7	155.2	157.5
70°	128.3	129.2	127.6	129.0	129.9	130.3	130.9	132.9	135.5	137.2	139.8
72.5°	110.6	110.6	110.7	111.2	112.3	112.9	113.5	115.7	118.6	120.0	122.2
75°	85.1	84.7	85.8	85.8	87.4	88.1	88.7	89.7	92.3	94.3	96.0
77.5°	62.2	62.5	62.3	63.5	63.0	63.1	65.2	66.1	66.4	70.3	71.2
80°	46.8	47.5	47.8	48.1	48.5	47.8	50.1	51.1	51.1	53.4	55.1
82.5°	33.7	34.0	34.9	35.2	35.3	35.9	36.2	36.9	37.6	38.7	40.8
85°	16.8	17.8	18.2	17.8	18.2	17.5	18.4	18.8	19.1	19.1	19.1
87.5°	6.3	6.8	6.8	7.3	7.3	7.9	8.0	7.6	7.7	8.5	7.5
90°	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7	13.1	13.5	13.9
92.5°	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9	14.6	15.3	15.8
95°	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8	17.5	18.3	18.7
97.5°	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6	18.4	19.3	19.8
100°	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9	18.9	19.7	20.1
102.5°	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9	24.2	21.5	20.2
105°	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9	49.6	30.3	20.8
107.5°	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8	154.6	140.4	126.1
110°	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3	210.7	207.1	197.4



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3	246.4	246.5	244.9
115°	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0	285.2	286.3	287.0
117.5°	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2	319.1	319.9	320.5
120°	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6	341.5	342.3	342.8
122.5°	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5	363.1	363.7	364.0
125°	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3	393.5	393.7	394.0
127.5°	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2	424.6	424.9	425.0
130°	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8	443.2	443.7	443.8
132.5°	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5	461.0	461.4	461.5
135°	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3	487.7	487.9	487.9
137.5°	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2	511.7	512.2	512.4
140°	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3	526.8	527.2	527.3
142.5°	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7	541.1	541.4	541.4
145°	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8	560.9	561.2	561.3
147.5°	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8	578.9	579.2	579.0
150°	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7	590.0	590.1	590.1
152.5°	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5	599.9	600.3	600.2
155°	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9	613.5	614.1	614.0
157.5°	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7	625.3	626.0	625.9
160°	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4	632.0	632.7	632.6
162.5°	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4	638.2	638.9	638.9
165°	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6	646.4	647.3	647.4
167.5°	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9	652.7	653.6	653.6
170°	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4	656.3	657.1	657.1
172.5°	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7	658.6	659.4	659.4
175°	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6	661.3	662.1	662.0
177.5°	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6	662.3	663.0	662.9
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	650.8	650.6	652.4	651.1	652.4	650.6	650.8	652.6	653.2	653.4	653.4
5°	605.8	606.7	603.5	603.5	603.5	606.7	605.8	607.8	609.4	610.7	612.7
7.5°	565.7	564.2	564.4	562.6	564.4	564.2	565.7	567.2	569.4	572.2	575.0
10°	541.1	539.2	538.5	538.8	538.5	539.2	541.1	545.1	546.4	549.1	552.0
12.5°	520.8	520.4	516.1	516.2	516.1	520.4	520.8	521.9	524.8	530.3	533.8
15°	497.0	490.7	490.0	492.0	490.0	490.7	497.0	497.0	498.3	502.6	504.5
17.5°	473.0	469.7	469.9	468.9	469.9	469.7	473.0	473.6	474.6	478.1	480.7
20°	460.4	458.4	458.1	455.7	458.1	458.4	460.4	460.4	461.7	463.3	466.0
22.5°	448.8	448.1	448.2	445.7	448.2	448.1	448.8	449.5	450.8	451.9	453.8
25°	434.3	435.9	434.6	434.6	434.6	435.9	434.3	434.6	435.0	436.6	437.9
27.5°	424.6	424.5	423.8	423.8	423.8	424.5	424.6	423.7	423.4	422.8	422.5
30°	417.2	416.8	417.5	417.5	417.5	416.8	417.2	415.9	415.2	414.8	413.5
32.5°	409.7	410.2	410.4	410.6	410.4	410.2	409.7	408.2	407.0	406.1	405.1
35°	398.4	398.6	399.7	399.0	399.7	398.6	398.4	396.4	395.0	393.0	391.4
37.5°	382.9	384.4	384.1	384.6	384.1	384.4	382.9	382.3	381.0	379.5	377.5
40°	371.3	372.3	372.0	372.0	372.0	372.3	371.3	371.0	369.6	368.7	367.0
42.5°	359.5	360.2	359.3	358.8	359.3	360.2	359.5	358.9	358.1	356.3	354.4
45°	340.0	339.3	340.4	339.0	340.4	339.3	340.0	338.6	338.4	337.0	335.4
47.5°	318.2	318.9	319.2	320.1	319.2	318.9	318.2	318.3	316.5	315.7	315.2
50°	303.7	305.7	305.7	305.4	305.7	305.7	303.7	303.1	301.7	300.4	300.4
52.5°	289.5	290.4	291.7	291.6	291.7	290.4	289.5	288.3	287.0	285.1	284.6
55°	267.4	268.1	268.7	269.1	268.7	268.1	267.4	264.8	263.8	262.8	261.1
57.5°	244.6	244.4	245.9	246.4	245.9	244.4	244.6	242.2	240.7	237.7	237.3
60°	228.5	228.5	231.2	232.1	231.2	228.5	228.5	225.9	223.6	221.6	220.9
62.5°	211.4	212.4	215.1	213.7	215.1	212.4	211.4	208.4	206.7	204.2	202.5
65°	186.3	189.0	188.6	189.9	188.6	189.0	186.3	184.7	181.1	178.7	176.8
67.5°	160.1	161.8	164.2	164.4	164.2	161.8	160.1	157.5	155.2	152.7	150.3
70°	142.5	144.1	145.4	146.4	145.4	144.1	142.5	139.8	137.2	135.5	132.9
72.5°	125.3	126.1	129.3	127.9	129.3	126.1	125.3	122.2	120.0	118.6	115.7
75°	98.2	100.6	102.5	101.6	102.5	100.6	98.2	96.0	94.3	92.3	89.7
77.5°	72.7	75.0	75.9	75.1	75.9	75.0	72.7	71.2	70.3	66.4	66.1
80°	57.3	57.1	59.1	58.7	59.1	57.1	57.3	55.1	53.4	51.1	51.1
82.5°	42.1	41.8	42.7	42.9	42.7	41.8	42.1	40.8	38.7	37.6	36.9
85°	20.4	21.4	20.1	19.8	20.1	21.4	20.4	19.1	19.1	19.1	18.8
87.5°	7.6	7.6	7.4	7.1	7.4	7.6	7.6	7.5	8.5	7.7	7.6
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7
92.5°	15.9	16.0	16.2	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9
95°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8
97.5°	19.9	20.0	20.1	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6
100°	20.3	20.4	20.5	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9
102.5°	20.4	20.7	20.8	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9
105°	20.9	21.2	21.4	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9
107.5°	111.5	96.9	82.4	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8
110°	181.8	166.3	150.7	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.6	238.2	235.0	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3
115°	287.4	287.9	288.3	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0
117.5°	320.6	320.6	320.7	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2
120°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6
122.5°	364.1	364.2	364.3	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5
125°	394.2	394.4	394.6	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3
127.5°	424.7	424.6	424.3	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2
130°	443.6	443.4	443.2	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8
132.5°	461.2	460.8	460.5	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5
135°	487.7	487.3	487.0	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3
137.5°	512.1	512.0	511.7	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2
140°	527.1	526.8	526.7	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3
142.5°	541.1	540.8	540.4	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7
145°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8
147.5°	578.5	578.0	577.6	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8
150°	589.8	589.4	589.1	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7
152.5°	599.8	599.3	598.7	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5
155°	613.4	612.7	612.1	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9
157.5°	625.0	624.2	623.4	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7
160°	631.9	631.1	630.3	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4
162.5°	638.3	637.6	636.9	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4
165°	646.6	645.8	645.1	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6
167.5°	652.7	651.9	651.0	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9
170°	656.3	655.4	654.5	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4
172.5°	658.5	657.5	656.5	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7
175°	661.2	660.3	659.4	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6
177.5°	662.0	661.2	660.3	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	652.6	652.6	657.6	660.8	664.8	667.4	669.3	671.1	674.2	678.6	683.3
5°	615.4	616.6	623.9	631.2	638.1	644.0	648.9	654.9	662.2	671.1	681.0
7.5°	579.2	584.3	591.6	600.5	610.1	618.8	627.5	637.3	647.5	660.6	674.5
10°	555.9	561.5	570.5	581.7	591.9	602.1	613.0	623.5	636.5	651.9	669.8
12.5°	535.6	541.0	550.2	562.4	572.1	583.4	595.9	609.6	624.1	642.7	662.9
15°	507.5	513.8	525.0	530.9	545.8	559.3	570.8	590.6	609.1	628.2	651.6
17.5°	484.4	487.9	497.0	508.0	519.1	534.3	549.4	565.8	584.3	607.7	637.0
20°	468.6	471.6	481.5	493.0	504.9	518.8	532.3	548.7	569.5	594.3	625.9
22.5°	456.7	459.9	466.4	478.7	489.8	501.3	514.8	534.5	556.6	580.7	615.1
25°	439.5	441.5	445.8	455.7	465.6	478.5	490.3	508.9	531.6	559.9	594.3
27.5°	423.3	425.2	428.8	435.8	445.1	455.6	468.5	484.1	507.2	538.0	574.5
30°	413.5	413.9	417.2	423.7	431.6	440.2	452.1	469.9	491.6	523.0	561.3
32.5°	405.1	403.8	406.0	411.0	418.7	427.3	437.0	454.6	475.6	506.4	545.7
35°	390.7	390.1	389.1	393.4	400.0	406.6	415.2	428.3	452.1	480.8	522.0
37.5°	376.2	374.6	372.8	374.8	380.0	386.8	394.3	406.0	426.5	458.1	497.5
40°	365.4	364.0	363.1	362.4	367.0	373.6	379.2	390.5	409.6	439.5	478.5
42.5°	353.5	352.8	351.5	350.5	354.4	359.4	365.2	375.1	394.3	422.4	459.3
45°	334.4	333.7	333.0	332.4	334.7	339.3	344.0	351.2	367.6	395.0	428.3
47.5°	313.1	312.2	312.5	311.4	313.7	316.8	320.0	327.8	343.6	365.7	390.0
50°	297.7	297.5	297.5	297.5	298.1	301.7	304.7	310.6	325.1	347.2	364.7
52.5°	283.3	281.9	281.9	282.4	283.6	285.9	287.8	294.3	306.9	325.1	341.0
55°	260.5	257.9	257.2	257.9	258.9	260.8	262.8	268.1	279.0	292.5	301.7
57.5°	235.3	233.8	233.0	233.2	233.7	235.2	236.8	242.5	251.1	258.1	264.1
60°	217.7	218.3	215.3	216.0	216.0	217.3	219.6	223.3	230.5	235.5	241.4
62.5°	201.0	200.1	199.2	198.3	198.3	198.8	201.9	204.7	210.9	213.5	218.2
65°	175.1	175.1	173.1	173.7	174.1	171.8	173.5	176.8	180.7	181.7	186.0
67.5°	148.9	147.9	146.8	145.9	145.9	145.6	146.5	148.1	151.1	151.4	154.7
70°	130.9	130.3	129.9	129.0	127.6	129.2	128.3	129.9	131.6	131.9	133.9
72.5°	113.5	112.9	112.3	111.2	110.7	110.6	110.6	112.5	113.7	113.1	115.4
75°	88.7	88.1	87.4	85.8	85.8	84.7	85.1	86.4	87.7	86.7	88.7
77.5°	65.2	63.1	63.0	63.5	62.3	62.5	62.2	61.9	62.5	62.6	64.4
80°	50.1	47.8	48.5	48.1	47.8	47.5	46.8	47.2	47.5	47.8	48.8
82.5°	36.2	35.9	35.3	35.2	34.9	34.0	33.7	34.3	34.5	34.4	35.1
85°	18.4	17.5	18.2	17.8	18.2	17.8	16.8	16.8	17.5	17.1	17.8
87.5°	8.0	7.9	7.3	7.3	6.8	6.8	6.3	6.3	6.4	6.1	6.5
90°	12.2	11.8	10.3	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5
92.5°	13.3	12.6	11.5	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1
95°	16.0	15.2	14.0	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0
97.5°	16.7	15.8	23.7	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2
100°	17.0	16.2	33.2	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0
102.5°	29.6	32.3	50.9	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9
105°	88.3	107.5	117.4	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4
107.5°	183.0	197.1	195.5	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8
110°	217.8	221.4	220.2	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	246.3	246.2	245.0	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3
115°	283.0	281.9	280.9	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5
117.5°	317.4	316.4	316.0	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6
120°	339.8	338.8	338.5	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9
122.5°	361.9	361.3	360.8	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8
125°	393.0	392.9	392.4	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9
127.5°	423.9	423.5	423.0	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2
130°	442.4	442.0	441.5	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1
132.5°	460.1	459.7	459.3	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2
135°	487.0	486.6	486.2	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7
137.5°	510.7	510.1	509.9	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3
140°	525.9	525.5	525.1	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0
142.5°	540.4	540.0	539.7	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5
145°	560.5	560.3	560.1	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9
147.5°	578.5	578.3	578.1	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1
150°	589.5	589.3	589.1	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9
152.5°	599.1	598.7	598.6	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4
155°	612.4	611.9	611.7	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3
157.5°	624.1	623.4	623.5	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0
160°	630.7	630.1	630.2	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0
162.5°	636.7	635.9	636.0	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7
165°	644.7	643.8	643.9	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8
167.5°	651.0	650.1	650.1	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0
170°	654.5	653.6	653.6	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6
172.5°	656.9	656.0	655.9	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0
175°	659.8	659.0	658.9	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0
177.5°	660.9	660.2	660.1	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	684.8	686.1	690.6	693.8	697.5	699.6	701.7	703.4	705.4	705.9	713.6
5°	687.9	694.5	706.0	714.5	725.1	736.7	744.6	748.2	757.8	765.7	781.5
7.5°	687.0	701.0	718.5	736.6	756.0	773.9	789.5	807.9	821.0	840.8	860.2
10°	686.2	705.0	727.5	750.5	777.6	802.6	825.1	850.2	870.9	898.3	921.7
12.5°	683.9	706.6	737.7	765.0	797.9	832.4	865.6	897.9	916.3	961.8	983.4
15°	678.0	705.0	743.9	785.5	830.7	871.6	913.8	947.4	1001.8	1041.7	1067.1
17.5°	666.8	704.6	750.8	800.9	855.8	909.7	957.5	1008.6	1066.3	1114.6	1166.1
20°	661.5	703.0	754.5	809.9	866.9	927.9	982.3	1043.7	1106.6	1154.2	1220.1
22.5°	651.8	698.8	754.2	816.0	876.9	940.0	1003.8	1065.6	1138.3	1203.8	1266.5
25°	635.8	688.5	745.9	814.9	886.4	949.7	1025.9	1108.0	1183.9	1267.9	1330.6
27.5°	619.1	675.4	732.9	796.9	873.9	949.1	1044.9	1137.6	1230.4	1303.0	1349.4
30°	606.1	660.8	720.2	784.8	861.0	950.4	1057.6	1158.7	1249.1	1311.5	1337.5
32.5°	592.1	647.6	700.2	767.9	849.1	949.6	1065.5	1171.1	1250.2	1291.7	1286.6
35°	570.2	616.6	667.8	733.1	828.7	943.7	1070.1	1172.3	1220.7	1211.9	1144.6
37.5°	538.5	577.6	627.9	699.4	804.9	931.6	1060.8	1137.6	1134.4	1061.9	964.4
40°	518.8	552.0	600.5	675.7	786.4	923.7	1046.3	1096.1	1054.0	952.7	835.9
42.5°	492.8	523.5	572.0	649.3	766.2	907.6	1018.6	1033.0	950.5	834.0	727.0
45°	452.8	479.8	529.9	609.8	735.7	872.5	951.1	915.8	804.6	684.2	602.8
47.5°	409.7	437.8	486.0	568.0	691.6	819.8	857.2	782.2	668.0	570.5	495.7
50°	382.5	409.6	456.7	539.5	661.9	776.6	792.1	695.2	590.3	504.5	443.2
52.5°	355.1	380.6	426.9	510.0	627.0	726.4	716.9	618.1	521.7	448.6	400.5
55°	314.3	338.4	382.5	460.4	566.9	645.7	611.1	516.8	437.0	380.2	343.6
57.5°	277.8	300.8	338.9	409.2	501.8	555.9	512.0	432.5	369.0	325.4	298.1
60°	253.0	273.4	309.6	375.0	455.4	496.6	453.1	382.9	329.4	294.5	270.1
62.5°	229.5	247.3	280.9	340.1	410.0	444.6	400.6	341.1	295.7	264.7	243.9
65°	193.9	210.1	239.7	285.9	343.3	366.4	328.5	280.3	245.0	222.0	208.1
67.5°	161.4	175.1	200.8	237.1	279.4	296.2	267.3	230.1	203.5	184.9	173.9
70°	139.8	151.7	171.8	203.1	241.4	254.3	227.2	196.6	177.1	162.2	152.1
72.5°	121.6	130.4	148.6	172.8	204.7	214.9	196.0	169.1	150.9	139.8	131.7
75°	92.6	99.9	111.8	131.2	153.3	159.3	145.1	128.3	116.1	108.1	101.9
77.5°	66.8	72.2	80.8	92.7	108.1	113.4	104.4	93.2	84.3	79.0	75.4
80°	50.5	54.8	62.0	71.9	81.1	84.1	78.8	70.3	64.0	61.0	58.0
82.5°	37.3	39.7	44.1	50.8	57.1	60.6	56.1	51.0	47.6	44.9	43.8
85°	18.8	20.1	22.1	24.7	28.7	30.0	28.3	27.0	25.1	23.4	23.4
87.5°	7.1	7.4	8.4	9.1	10.4	11.5	11.5	11.3	11.4	11.2	10.9
90°	1.5	2.7	3.8	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7
92.5°	8.9	8.5	8.2	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9
95°	25.5	21.0	16.5	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8
97.5°	58.2	56.2	54.2	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6
100°	85.2	87.4	89.5	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9
102.5°	110.5	112.1	113.7	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9
105°	147.6	148.8	149.9	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9
107.5°	186.8	187.8	188.7	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8
110°	213.0	213.9	214.7	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3





TEST NUMBER: P331919-935

CATALOG NUMBER: S123DIP-S560D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.8	239.6	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3
115°	275.2	275.8	276.5	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0
117.5°	311.3	312.2	313.0	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2
120°	333.9	334.9	335.9	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6
122.5°	356.5	357.3	358.2	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5
125°	387.9	388.7	389.6	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3
127.5°	418.1	419.0	419.8	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2
130°	437.0	437.8	438.7	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8
132.5°	455.0	455.9	456.8	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5
135°	482.4	483.0	483.7	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3
137.5°	506.2	507.0	507.8	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2
140°	521.7	522.4	523.0	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3
142.5°	536.2	536.9	537.5	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7
145°	556.6	557.4	558.2	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8
147.5°	575.6	576.1	576.5	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8
150°	587.2	587.5	587.8	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7
152.5°	597.6	597.7	597.9	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5
155°	612.2	611.9	611.7	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9
157.5°	624.0	623.9	623.9	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7
160°	630.9	630.9	630.7	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4
162.5°	637.4	637.1	636.9	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4
165°	645.4	645.1	644.8	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6
167.5°	651.6	651.2	650.7	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9
170°	655.1	654.7	654.3	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4
172.5°	657.5	656.9	656.3	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7
175°	660.5	659.9	659.4	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6
177.5°	661.3	660.9	660.5	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	716.3	716.5	719.4	721.5	720.5	721.8	722.3
5°	782.5	794.4	800.6	805.3	805.6	805.9	808.6
7.5°	876.5	889.2	898.5	912.7	916.9	921.7	920.3
10°	945.1	963.9	980.1	988.6	997.8	1011.3	1000.5
12.5°	1009.2	1042.5	1067.1	1080.4	1089.2	1091.8	1086.5
15°	1114.9	1158.5	1181.9	1181.2	1210.9	1223.7	1203.6
17.5°	1211.9	1252.1	1284.2	1300.7	1325.4	1330.9	1328.4
20°	1271.2	1315.1	1340.1	1368.5	1381.4	1392.9	1394.9
22.5°	1322.4	1361.8	1388.7	1412.3	1423.1	1428.5	1431.8
25°	1375.1	1406.1	1422.3	1430.5	1433.5	1432.8	1428.5
27.5°	1371.5	1373.8	1356.1	1338.6	1322.9	1305.3	1299.2
30°	1335.8	1308.1	1258.7	1230.6	1189.5	1156.8	1170.0
32.5°	1242.2	1187.1	1131.5	1070.2	1019.5	1005.1	990.6
35°	1060.1	963.2	906.5	840.6	814.2	787.8	769.6
37.5°	857.7	782.7	715.4	672.3	645.8	629.2	620.2
40°	741.7	674.0	618.6	583.7	563.5	544.8	542.1
42.5°	649.0	586.2	544.5	516.7	497.3	489.4	483.5
45°	531.6	487.7	459.7	439.9	427.1	422.1	415.5
47.5°	450.0	419.0	397.9	384.4	374.7	371.0	370.5
50°	404.3	378.6	363.1	352.5	344.9	343.6	338.4
52.5°	370.0	347.7	335.6	326.4	320.9	317.2	315.6
55°	321.2	306.3	295.5	290.2	285.9	282.2	282.2
57.5°	281.0	268.6	261.4	256.9	255.6	253.0	251.4
60°	256.2	245.6	240.0	236.1	233.5	233.8	230.8
62.5°	232.0	225.1	219.7	215.8	212.7	212.7	212.9
65°	197.5	192.3	188.3	187.0	185.0	182.7	183.3
67.5°	167.4	162.5	159.4	157.1	156.4	155.2	157.1
70°	145.8	142.2	139.8	137.8	137.2	137.5	139.1
72.5°	126.0	123.4	121.9	121.0	119.5	119.6	120.7
75°	98.9	96.9	95.7	94.6	94.3	94.3	94.3
77.5°	72.7	72.2	71.6	70.2	70.3	70.6	70.7
80°	57.3	56.4	56.1	55.4	54.4	53.7	55.4
82.5°	42.9	41.8	41.6	41.4	39.9	39.8	41.2
85°	23.1	22.1	22.4	22.1	22.1	21.8	21.8
87.5°	10.8	10.6	10.4	10.8	10.5	10.3	10.8
90°	13.1	13.5	13.9	14.1	14.3	14.6	14.7
92.5°	14.6	15.3	15.8	15.9	16.0	16.2	16.3
95°	17.5	18.3	18.7	18.7	18.7	18.7	18.7
97.5°	18.4	19.3	19.8	19.9	20.0	20.1	20.2
100°	18.9	19.7	20.1	20.3	20.4	20.5	20.7
102.5°	24.2	21.5	20.2	20.4	20.7	20.8	21.0
105°	49.6	30.3	20.8	20.9	21.2	21.4	21.6
107.5°	154.6	140.4	126.1	111.5	96.9	82.4	67.8
110°	210.7	207.1	197.4	181.8	166.3	150.7	135.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	246.4	246.5	244.9	241.6	238.2	235.0	231.7
115°	285.2	286.3	287.0	287.4	287.9	288.3	288.8
117.5°	319.1	319.9	320.5	320.6	320.6	320.7	320.8
120°	341.5	342.3	342.8	342.8	342.8	342.8	342.8
122.5°	363.1	363.7	364.0	364.1	364.2	364.3	364.4
125°	393.5	393.7	394.0	394.2	394.4	394.6	394.9
127.5°	424.6	424.9	425.0	424.7	424.6	424.3	424.1
130°	443.2	443.7	443.8	443.6	443.4	443.2	443.0
132.5°	461.0	461.4	461.5	461.2	460.8	460.5	460.2
135°	487.7	487.9	487.9	487.7	487.3	487.0	486.6
137.5°	511.7	512.2	512.4	512.1	512.0	511.7	511.5
140°	526.8	527.2	527.3	527.1	526.8	526.7	526.4
142.5°	541.1	541.4	541.4	541.1	540.8	540.4	540.2
145°	560.9	561.2	561.3	561.3	561.3	561.3	561.3
147.5°	578.9	579.2	579.0	578.5	578.0	577.6	577.0
150°	590.0	590.1	590.1	589.8	589.4	589.1	588.8
152.5°	599.9	600.3	600.2	599.8	599.3	598.7	598.2
155°	613.5	614.1	614.0	613.4	612.7	612.1	611.4
157.5°	625.3	626.0	625.9	625.0	624.2	623.4	622.5
160°	632.0	632.7	632.6	631.9	631.1	630.3	629.6
162.5°	638.2	638.9	638.9	638.3	637.6	636.9	636.3
165°	646.4	647.3	647.4	646.6	645.8	645.1	644.3
167.5°	652.7	653.6	653.6	652.7	651.9	651.0	650.1
170°	656.3	657.1	657.1	656.3	655.4	654.5	653.6
172.5°	658.6	659.4	659.4	658.5	657.5	656.5	655.6
175°	661.3	662.1	662.0	661.2	660.3	659.4	658.5
177.5°	662.3	663.0	662.9	662.0	661.2	660.3	659.4
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0

(END OF REPORT)