

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: P331939-935

Luminaire Tested: **S123DIP-S560D1025U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331939-935
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-S560D1025U935-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.7 lumens
Efficiency: N/A
Efficacy: 118.0 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: Semi-Indirect

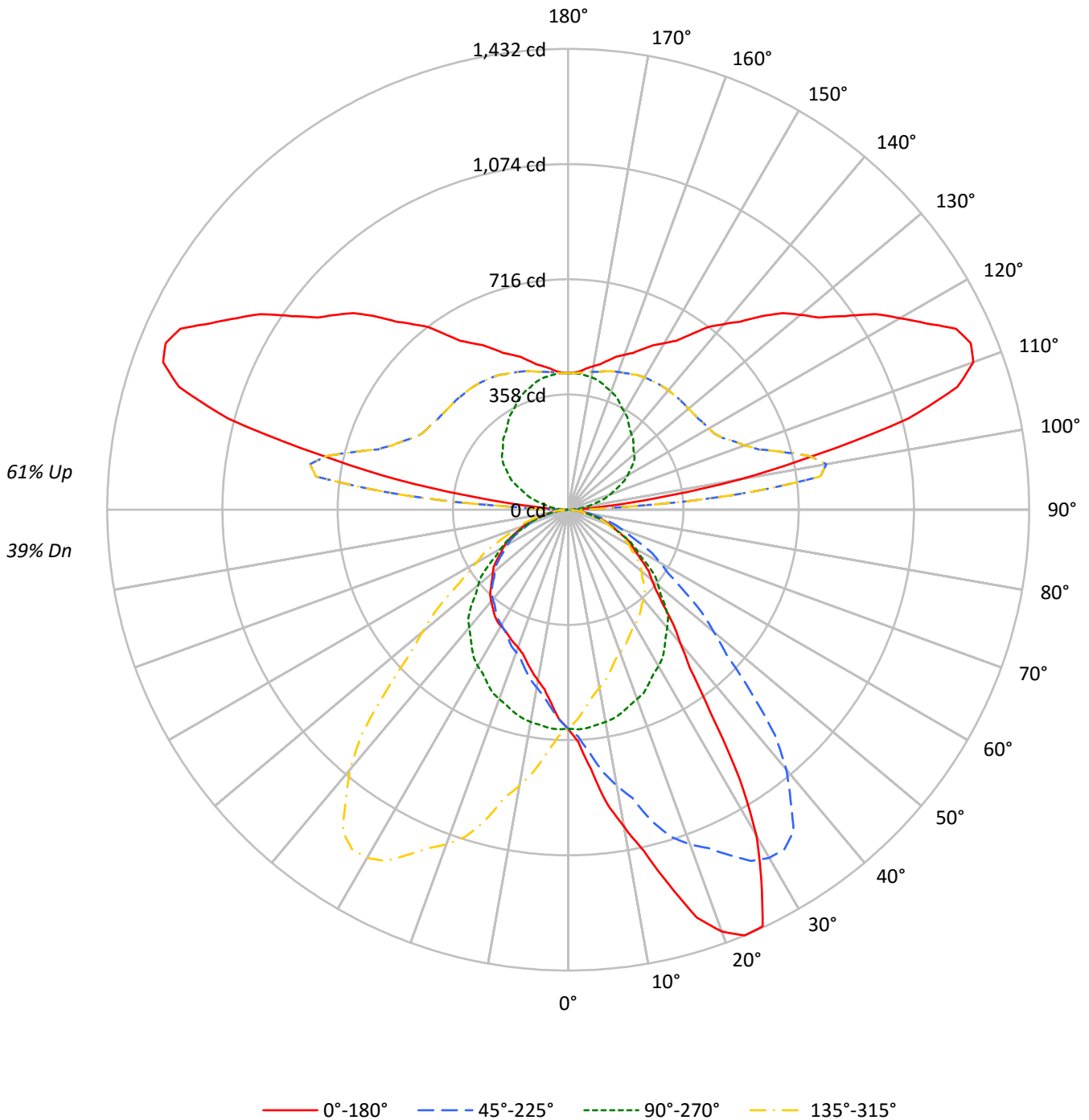
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

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	1.3
10°-20°	215.0	4.1
20°-30°	360.8	6.9
30°-40°	408.6	7.8
40°-50°	366.4	7.0
50°-60°	295.7	5.6
60°-70°	206.0	3.9
70°-80°	108.3	2.1
80°-90°	29.8	0.6
90°-100°	236.3	4.5
100°-110°	669.0	12.7
110°-120°	658.1	12.5
120°-130°	525.0	10.0
130°-140°	413.9	7.9
140°-150°	308.9	5.9
150°-160°	215.3	4.1
160°-170°	126.5	2.4
170°-180°	41.2	0.8
0°-30°	642.9	12.2
0°-40°	1051.4	20.0
0°-60°	1713.5	32.6
0°-90°	2057.6	39.2
90°-120°	1563.5	29.8
90°-150°	2811.2	53.5
90°-180°	3194.0	60.8
0°-180°	5251.7	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°	25	2	25	2	25	14
95°	100	29	100	29	100	180
105°	1093	100	1093	100	1093	1078
115°	1330	176	1330	176	1330	1292
125°	1048	245	1048	245	1048	950
135°	850	287	850	287	850	659
145°	664	327	664	327	664	423
155°	551	372	551	372	551	257
165°	480	406	480	406	480	137
175°	432	424	432	424	432	42
180°	425	425	425	425	425	



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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°	12.9	12.6	12.7	12.7	12.7	12.6	12.7	12.7	12.8	13.3	13.0
90°	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5	20.7	21.5	18.9
92.5°	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3	99.7	132.2	145.4
95°	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4	413.4	509.6	453.7
97.5°	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3	845.0	789.8	578.2
100°	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3	983.2	813.9	550.0
102.5°	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7	990.1	769.2	508.8
105°	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2	937.6	691.0	458.1
107.5°	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6	845.8	621.9	425.8
110°	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9	788.1	582.7	413.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9	737.9	556.6	406.5
115°	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2	677.3	528.6	403.9
117.5°	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9	640.6	512.0	405.4
120°	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5	621.4	504.5	408.2
122.5°	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1	605.5	499.6	413.0
125°	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3	585.3	493.4	420.3
127.5°	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7	567.4	490.3	428.5
130°	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2	557.8	488.2	434.0
132.5°	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9	548.8	487.5	438.2
135°	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7	537.2	486.5	444.4
137.5°	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6	527.0	484.6	448.4
140°	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2	520.8	483.9	451.2
142.5°	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5	515.3	482.5	453.2
145°	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5	507.9	480.4	454.6
147.5°	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9	500.7	477.2	454.6
150°	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7	495.8	474.4	454.6
152.5°	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1	490.4	471.0	452.5
155°	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7	482.2	464.9	450.3
157.5°	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7	472.9	459.6	447.5
160°	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9	466.7	455.5	446.1
162.5°	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6	460.5	451.3	443.3
165°	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9	452.0	445.2	439.2
167.5°	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6	444.0	439.0	435.1
170°	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5	439.2	434.9	432.3
172.5°	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0	434.4	431.4	430.2
175°	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6	428.9	427.1	427.1
177.5°	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9	425.2	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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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°	13.0	12.7	11.5	10.1	9.2	7.9	7.6	6.7	6.5	6.8	7.1
90°	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7	3.4	5.2	7.7
92.5°	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7	15.8	23.1	29.7
95°	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2	31.8	41.2	55.9
97.5°	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9	50.7	58.1	70.8
100°	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6	64.5	70.5	82.5
102.5°	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0	79.6	84.9	96.3
105°	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7	102.3	107.5	117.8
107.5°	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7	125.3	130.3	140.4
110°	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2	141.8	146.1	155.6



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4	157.0	161.3	170.7
115°	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2	179.6	184.8	193.4
117.5°	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0	202.0	206.3	214.1
120°	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1	215.7	220.0	228.6
122.5°	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2	228.8	233.1	242.4
125°	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0	246.7	251.8	261.2
127.5°	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2	261.7	268.1	277.8
130°	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1	270.7	278.4	288.8
132.5°	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0	278.3	286.7	299.1
135°	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1	290.5	300.0	312.8
137.5°	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4	302.0	311.3	325.0
140°	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0	310.2	318.8	332.6
142.5°	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2	317.8	327.1	339.5
145°	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4	330.0	337.8	350.7
147.5°	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9	342.4	350.0	361.1
150°	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8	350.7	357.5	368.7
152.5°	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7	358.9	365.8	375.6
155°	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1	372.1	377.3	385.9
157.5°	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8	383.5	387.6	395.2
160°	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1	391.1	394.5	401.3
162.5°	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3	397.3	400.0	405.4
165°	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5	405.6	407.3	411.6
167.5°	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5	412.5	413.4	416.6
170°	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7	415.9	416.8	419.4
172.5°	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4	419.4	419.6	421.5
175°	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7	422.8	422.0	423.7
177.5°	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2	424.6	423.9	424.6
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

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°	7.1	7.7	8.0	8.8	9.0	9.8	9.6	9.3	9.5	10.4	9.7
90°	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5	22.4	23.2	24.9
92.5°	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3	57.4	50.7	46.2
95°	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4	209.7	164.2	133.2
97.5°	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3	617.8	506.9	404.1
100°	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3	943.7	843.1	721.1
102.5°	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7	1091.5	1032.9	955.5
105°	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2	1203.2	1219.5	1197.2
107.5°	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6	1189.1	1264.4	1295.0
110°	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9	1143.1	1251.3	1311.5



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9	1082.5	1203.9	1281.3
115°	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2	985.8	1112.1	1205.7
117.5°	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9	904.0	1017.4	1112.4
120°	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5	858.6	961.7	1048.5
122.5°	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1	822.2	917.7	998.3
125°	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3	777.0	859.5	928.2
127.5°	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7	737.2	811.7	874.2
130°	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2	712.5	782.0	840.5
132.5°	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9	689.1	753.9	809.6
135°	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7	655.7	711.6	760.6
137.5°	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6	623.6	671.8	714.2
140°	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2	605.0	646.3	683.3
142.5°	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5	587.2	622.9	655.0
145°	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5	563.8	591.2	616.2
147.5°	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9	546.4	568.6	586.3
150°	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7	535.5	553.5	569.8
152.5°	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1	525.1	541.1	554.7
155°	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7	510.5	523.4	533.7
157.5°	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7	496.2	506.2	514.3
160°	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9	487.3	495.8	501.9
162.5°	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6	477.7	485.6	490.9
165°	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9	464.1	470.1	474.4
167.5°	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6	453.6	457.0	460.1
170°	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5	446.1	449.4	451.2
172.5°	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0	439.9	442.6	443.7
175°	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6	431.4	433.2	433.2
177.5°	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9	426.6	427.3	427.3
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

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°	9.6	9.7	9.6	9.2	9.6	9.7	9.6	9.7	10.4	9.5	9.3
90°	24.0	24.9	25.7	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5
92.5°	44.7	42.1	43.0	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3
95°	116.9	109.2	103.1	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4
97.5°	340.7	302.0	278.8	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3
100°	634.3	571.5	538.0	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3
102.5°	887.9	838.3	810.3	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7
105°	1157.6	1125.0	1097.5	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2
107.5°	1295.7	1284.7	1275.4	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6
110°	1335.6	1342.5	1340.7	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1325.3	1346.5	1353.1	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9
115°	1270.2	1308.0	1325.3	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2
117.5°	1179.7	1223.0	1247.8	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9
120°	1116.4	1164.5	1185.2	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5
122.5°	1058.7	1102.0	1124.6	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1
125°	983.2	1021.0	1042.5	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3
127.5°	923.2	955.5	974.9	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7
130°	886.1	917.1	935.0	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2
132.5°	852.4	883.3	899.3	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9
135°	802.7	828.5	844.0	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7
137.5°	749.6	775.8	788.8	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6
140°	715.9	739.9	753.7	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2
142.5°	682.9	704.2	716.6	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5
145°	637.7	655.7	662.6	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5
147.5°	602.6	614.8	621.4	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9
150°	582.7	592.1	597.3	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7
152.5°	564.8	573.6	576.7	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1
155°	541.5	548.3	550.0	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7
157.5°	521.0	526.2	527.5	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7
160°	507.9	513.1	513.1	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9
162.5°	494.9	499.3	499.3	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6
165°	477.9	481.3	480.4	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9
167.5°	461.7	464.1	463.2	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6
170°	452.0	453.7	452.9	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5
172.5°	443.8	445.6	444.0	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0
175°	433.2	434.0	433.2	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6
177.5°	426.6	427.3	425.9	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

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°	9.6	9.8	9.0	8.8	8.0	7.7	7.1	7.1	6.8	6.5	6.7
90°	20.7	21.5	18.9	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7
92.5°	99.7	132.2	145.4	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7
95°	413.4	509.6	453.7	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2
97.5°	845.0	789.8	578.2	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9
100°	983.2	813.9	550.0	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6
102.5°	990.1	769.2	508.8	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0
105°	937.6	691.0	458.1	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7
107.5°	845.8	621.9	425.8	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7
110°	788.1	582.7	413.4	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	737.9	556.6	406.5	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4
115°	677.3	528.6	403.9	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2
117.5°	640.6	512.0	405.4	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0
120°	621.4	504.5	408.2	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1
122.5°	605.5	499.6	413.0	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2
125°	585.3	493.4	420.3	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0
127.5°	567.4	490.3	428.5	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2
130°	557.8	488.2	434.0	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1
132.5°	548.8	487.5	438.2	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0
135°	537.2	486.5	444.4	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1
137.5°	527.0	484.6	448.4	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4
140°	520.8	483.9	451.2	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0
142.5°	515.3	482.5	453.2	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2
145°	507.9	480.4	454.6	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4
147.5°	500.7	477.2	454.6	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9
150°	495.8	474.4	454.6	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8
152.5°	490.4	471.0	452.5	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7
155°	482.2	464.9	450.3	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1
157.5°	472.9	459.6	447.5	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8
160°	466.7	455.5	446.1	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1
162.5°	460.5	451.3	443.3	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3
165°	452.0	445.2	439.2	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5
167.5°	444.0	439.0	435.1	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5
170°	439.2	434.9	432.3	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7
172.5°	434.4	431.4	430.2	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4
175°	428.9	427.1	427.1	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7
177.5°	425.2	424.6	425.2	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

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°	7.6	7.9	9.2	10.1	11.5	12.7	13.0	13.0	13.3	12.8	12.7
90°	3.4	5.2	7.7	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5
92.5°	15.8	23.1	29.7	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3
95°	31.8	41.2	55.9	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4
97.5°	50.7	58.1	70.8	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3
100°	64.5	70.5	82.5	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3
102.5°	79.6	84.9	96.3	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7
105°	102.3	107.5	117.8	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2
107.5°	125.3	130.3	140.4	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6
110°	141.8	146.1	155.6	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9



TEST NUMBER: P331939-935

CATALOG NUMBER: S123DIP-S560D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.0	161.3	170.7	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9
115°	179.6	184.8	193.4	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2
117.5°	202.0	206.3	214.1	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9
120°	215.7	220.0	228.6	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5
122.5°	228.8	233.1	242.4	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1
125°	246.7	251.8	261.2	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3
127.5°	261.7	268.1	277.8	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7
130°	270.7	278.4	288.8	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2
132.5°	278.3	286.7	299.1	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9
135°	290.5	300.0	312.8	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7
137.5°	302.0	311.3	325.0	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6
140°	310.2	318.8	332.6	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2
142.5°	317.8	327.1	339.5	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5
145°	330.0	337.8	350.7	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5
147.5°	342.4	350.0	361.1	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9
150°	350.7	357.5	368.7	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7
152.5°	358.9	365.8	375.6	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1
155°	372.1	377.3	385.9	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7
157.5°	383.5	387.6	395.2	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7
160°	391.1	394.5	401.3	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9
162.5°	397.3	400.0	405.4	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6
165°	405.6	407.3	411.6	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9
167.5°	412.5	413.4	416.6	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6
170°	415.9	416.8	419.4	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5
172.5°	419.4	419.6	421.5	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0
175°	422.8	422.0	423.7	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6
177.5°	424.6	423.9	424.6	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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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°	12.7	12.6	12.7	12.7	12.7	12.6	12.9
90°	22.4	23.2	24.9	24.0	24.9	25.7	24.9
92.5°	57.4	50.7	46.2	44.7	42.1	43.0	41.4
95°	209.7	164.2	133.2	116.9	109.2	103.1	99.7
97.5°	617.8	506.9	404.1	340.7	302.0	278.8	271.4
100°	943.7	843.1	721.1	634.3	571.5	538.0	538.9
102.5°	1091.5	1032.9	955.5	887.9	838.3	810.3	790.5
105°	1203.2	1219.5	1197.2	1157.6	1125.0	1097.5	1093.2
107.5°	1189.1	1264.4	1295.0	1295.7	1284.7	1275.4	1267.5
110°	1143.1	1251.3	1311.5	1335.6	1342.5	1340.7	1339.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1082.5	1203.9	1281.3	1325.3	1346.5	1353.1	1353.4
115°	985.8	1112.1	1205.7	1270.2	1308.0	1325.3	1329.6
117.5°	904.0	1017.4	1112.4	1179.7	1223.0	1247.8	1253.5
120°	858.6	961.7	1048.5	1116.4	1164.5	1185.2	1190.3
122.5°	822.2	917.7	998.3	1058.7	1102.0	1124.6	1131.2
125°	777.0	859.5	928.2	983.2	1021.0	1042.5	1048.5
127.5°	737.2	811.7	874.2	923.2	955.5	974.9	980.4
130°	712.5	782.0	840.5	886.1	917.1	935.0	941.9
132.5°	689.1	753.9	809.6	852.4	883.3	899.3	904.1
135°	655.7	711.6	760.6	802.7	828.5	844.0	850.0
137.5°	623.6	671.8	714.2	749.6	775.8	788.8	792.7
140°	605.0	646.3	683.3	715.9	739.9	753.7	752.9
142.5°	587.2	622.9	655.0	682.9	704.2	716.6	715.7
145°	563.8	591.2	616.2	637.7	655.7	662.6	664.3
147.5°	546.4	568.6	586.3	602.6	614.8	621.4	622.1
150°	535.5	553.5	569.8	582.7	592.1	597.3	597.3
152.5°	525.1	541.1	554.7	564.8	573.6	576.7	576.7
155°	510.5	523.4	533.7	541.5	548.3	550.0	550.9
157.5°	496.2	506.2	514.3	521.0	526.2	527.5	527.4
160°	487.3	495.8	501.9	507.9	513.1	513.1	512.2
162.5°	477.7	485.6	490.9	494.9	499.3	499.3	498.4
165°	464.1	470.1	474.4	477.9	481.3	480.4	480.4
167.5°	453.6	457.0	460.1	461.7	464.1	463.2	463.2
170°	446.1	449.4	451.2	452.0	453.7	452.9	452.9
172.5°	439.9	442.6	443.7	443.8	445.6	444.0	443.3
175°	431.4	433.2	433.2	433.2	434.0	433.2	432.3
177.5°	426.6	427.3	427.3	426.6	427.3	425.9	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6

(END OF REPORT)