

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: P333169-927

Luminaire Tested: **S125DIP-S610D590U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333169-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIP-S610D590U927-4F0-1E-UDD-A  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3874.3 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

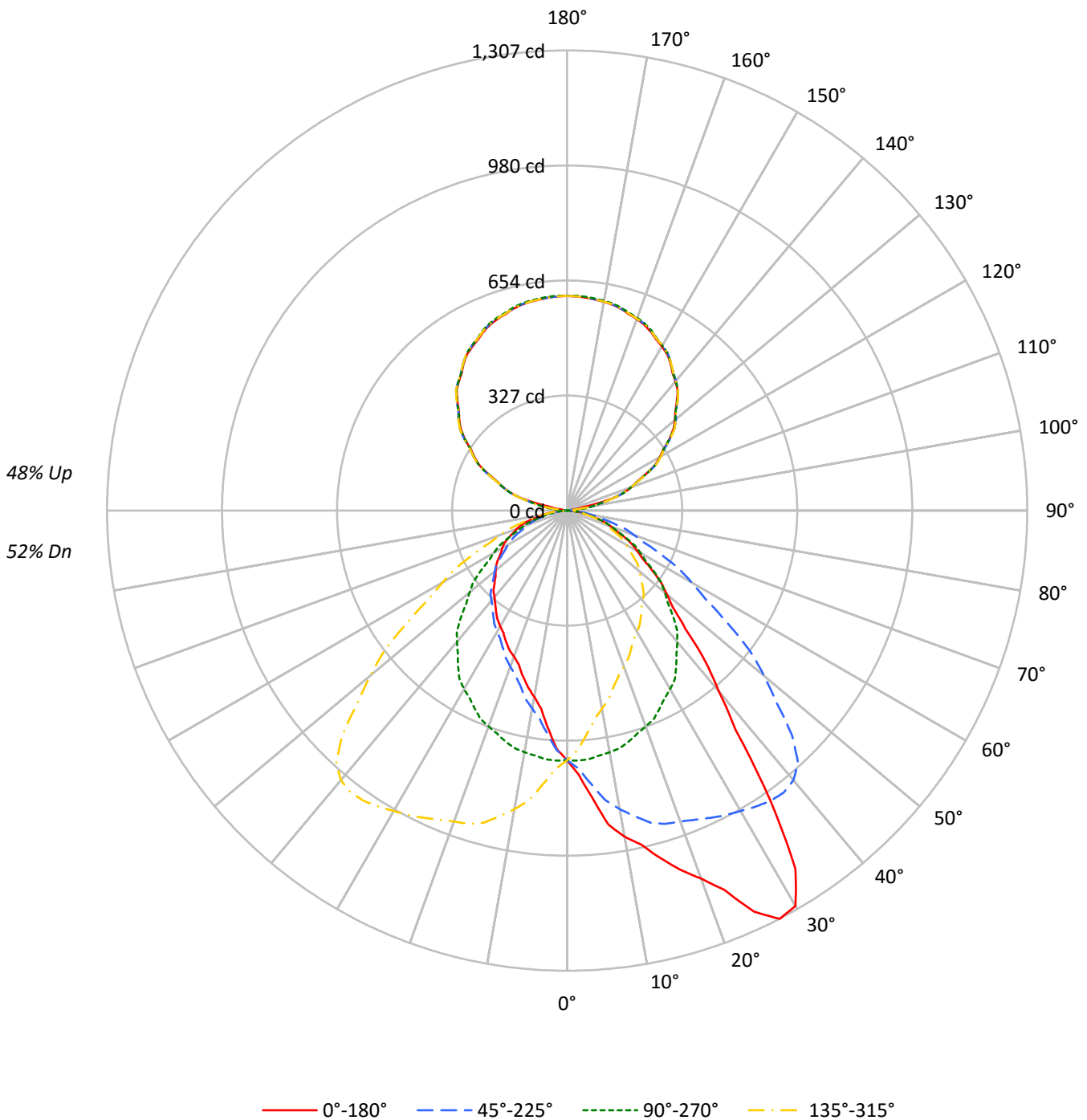
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	82	76	71	83	77	71	67	65	61	58	55	52	50	45	43	42	37
3	82	73	65	60	76	67	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	57	51	69	60	53	48	51	46	42	44	40	36	36	33	31	27
5	69	57	49	43	64	54	46	41	46	40	36	39	35	32	33	30	27	24
6	64	52	43	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	4579	4579	4579	4579
5°	5302	4595	4023	4595
10°	6169	4571	3525	4571
15°	6829	4537	3251	4537
20°	7644	4484	3032	4484
25°	8955	4424	2925	4424
30°	9672	4365	2832	4365
35°	7953	4254	2771	4254
40°	5653	4100	2705	4100
45°	4343	3892	2666	3892
50°	3706	3634	2661	3634
55°	3300	3381	2684	3381
60°	2977	3105	2753	3105
65°	2751	2829	2823	2829
70°	2500	2540	2865	2540
75°	2208	2238	2840	2238
80°	1860	1822	2596	1822
85°	1475	1312	2097	1312



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	1.8
10°-20°	203.2	5.2
20°-30°	330.0	8.5
30°-40°	402.5	10.4
40°-50°	366.2	9.5
50°-60°	291.7	7.5
60°-70°	203.2	5.2
70°-80°	108.3	2.8
80°-90°	28.6	0.7
90°-100°	22.2	0.6
100°-110°	136.6	3.5
110°-120°	247.7	6.4
120°-130°	317.8	8.2
130°-140°	341.9	8.8
140°-150°	320.9	8.3
150°-160°	259.6	6.7
160°-170°	167.9	4.3
170°-180°	57.9	1.5
0°-30°	601.5	15.5
0°-40°	1004.0	25.9
0°-60°	1661.8	42.9
0°-90°	2001.9	51.7
90°-120°	406.4	10.5
90°-150°	1387.0	35.8
90°-180°	1872.0	48.3
0°-180°	3874.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	818	709	620	709	818	82
15°	1021	679	486	679	1021	292
25°	1257	621	410	621	1257	574
35°	1009	540	352	540	1009	617
45°	476	426	292	426	476	381
55°	293	300	238	300	293	264
65°	180	185	185	185	180	179
75°	88	90	114	90	88	95
85°	20	18	28	18	20	23
90°	11	0	11	0	11	5
95°	10	26	10	26	10	8
105°	134	133	134	133	134	121
115°	248	250	248	250	248	246
125°	355	355	355	355	355	316
135°	441	442	441	442	441	340
145°	512	513	512	513	512	320
155°	561	565	561	565	561	258
165°	593	596	593	596	593	167
175°	607	610	607	610	607	58
180°	610	610	610	610	610	



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	750.0	748.9	748.0	746.1	747.5	743.4	741.5	738.2	734.0	732.6	730.9
5°	817.9	819.4	820.9	814.6	815.2	811.0	801.4	793.5	787.3	779.1	773.4
7.5°	899.8	896.2	896.0	891.8	884.8	879.2	869.0	856.1	843.7	829.5	817.8
10°	940.7	941.0	938.3	933.5	926.0	920.5	907.3	894.7	879.3	861.3	848.3
12.5°	971.5	972.8	969.4	962.9	959.2	947.1	936.7	921.6	903.4	889.0	869.3
15°	1021.4	1018.0	1015.7	1007.5	1001.2	988.6	972.0	956.3	936.5	918.1	899.8
17.5°	1069.4	1072.1	1067.5	1060.1	1040.5	1025.7	1003.5	982.1	957.4	932.8	910.9
20°	1112.2	1114.7	1107.7	1094.8	1071.3	1056.5	1027.4	999.7	971.1	939.5	915.4
22.5°	1165.7	1163.8	1154.4	1134.7	1114.4	1087.1	1055.6	1021.8	986.0	950.3	918.3
25°	1256.7	1244.0	1238.3	1213.9	1187.2	1147.2	1103.8	1054.5	1010.0	962.7	921.8
27.5°	1307.1	1303.1	1296.8	1279.8	1251.6	1208.9	1157.8	1097.6	1034.7	975.2	921.5
30°	1297.0	1297.6	1298.2	1292.8	1274.8	1242.5	1191.7	1127.0	1052.3	985.2	923.3
32.5°	1207.4	1218.4	1228.9	1241.3	1246.3	1240.2	1208.3	1149.9	1073.1	996.8	922.3
35°	1008.7	1012.0	1046.1	1079.7	1125.5	1161.0	1184.8	1158.9	1094.2	1006.6	921.1
37.5°	786.5	802.8	826.3	864.4	930.4	989.5	1065.6	1100.5	1079.6	1009.8	919.0
40°	670.5	685.6	700.8	739.7	795.4	867.0	953.3	1027.1	1044.3	999.7	911.8
42.5°	580.9	592.9	609.9	639.1	685.6	749.0	831.6	927.9	987.1	970.3	896.7
45°	475.5	483.0	496.2	519.4	553.1	602.8	675.6	780.9	872.7	903.1	860.6
47.5°	406.9	406.9	417.2	433.2	457.6	499.7	553.6	636.1	734.1	806.7	803.3
50°	368.9	367.4	375.6	389.4	408.7	436.7	488.1	554.1	648.2	730.4	753.2
52.5°	336.2	336.4	341.4	351.6	367.7	391.7	430.1	489.5	570.0	654.3	697.4
55°	293.1	291.9	297.6	304.5	316.3	331.9	359.7	405.0	470.3	553.4	609.3
57.5°	253.7	256.9	259.2	264.0	273.8	284.2	307.6	341.0	392.8	464.1	523.2
60°	230.5	233.9	235.6	240.4	248.3	257.3	275.4	302.5	346.1	407.5	466.1
62.5°	209.8	212.4	213.0	217.3	223.7	232.5	246.7	269.4	304.0	357.6	415.1
65°	180.0	180.0	181.2	185.7	188.7	196.5	207.3	223.9	251.6	293.4	342.5
67.5°	151.1	152.7	152.3	154.3	157.1	163.2	171.0	184.6	205.1	235.6	274.9
70°	132.4	133.6	133.3	134.8	137.8	141.7	148.1	161.0	175.7	201.9	235.6
72.5°	115.6	116.1	115.3	117.2	119.1	122.5	129.5	136.4	150.2	172.3	200.0
75°	88.5	89.0	89.7	90.9	92.7	94.5	98.1	105.0	114.1	130.6	148.4
77.5°	66.3	65.2	66.6	66.5	67.5	68.8	72.0	75.7	83.1	93.6	107.3
80°	50.0	50.2	50.2	50.5	52.0	53.0	55.7	58.4	64.1	71.9	81.5
82.5°	36.4	37.2	36.8	37.3	38.6	39.2	40.7	42.9	46.3	52.4	59.4
85°	19.9	18.4	18.9	19.6	19.6	19.9	21.1	21.9	23.8	26.1	28.9
87.5°	7.9	8.4	8.6	8.5	8.6	8.6	9.4	9.3	10.0	10.6	11.4
90°	10.9	10.5	10.2	10.0	9.7	9.3	8.7	8.2	7.8	7.2	6.5
92.5°	10.1	10.0	9.8	9.7	9.6	9.3	8.7	8.2	7.8	7.2	6.6
95°	9.5	9.5	9.5	9.5	9.5	9.3	8.7	8.2	7.8	7.2	11.0
97.5°	9.5	9.5	9.5	9.5	9.5	10.9	13.7	16.6	19.4	22.3	29.8
100°	9.5	9.9	10.3	10.7	11.1	18.8	33.7	48.7	63.7	78.7	78.3
102.5°	56.9	63.7	70.5	77.3	84.2	89.0	91.8	94.7	97.5	100.4	100.1
105°	134.2	134.4	134.4	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.2	169.5	169.8	170.2	170.4	170.6	170.6	170.6	170.5	170.5	170.3
110°	193.5	193.4	193.2	193.1	193.1	193.1	193.5	193.8	194.1	194.3	194.2



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	215.2	215.3	215.4	215.6	215.7	215.9	216.3	216.7	217.1	217.5	217.4
115°	247.7	248.3	248.9	249.5	250.1	250.6	251.0	251.4	251.8	252.2	252.1
117.5°	282.4	282.7	282.9	283.2	283.4	283.8	284.3	284.9	285.4	285.9	285.5
120°	303.7	304.2	304.8	305.2	305.7	306.1	306.3	306.5	306.7	306.9	306.6
122.5°	324.0	324.6	325.1	325.7	326.3	326.7	326.9	327.1	327.3	327.5	327.3
125°	354.8	355.1	355.4	355.7	356.0	356.3	356.7	357.2	357.6	358.0	358.0
127.5°	380.7	381.5	382.2	382.9	383.7	384.2	384.4	384.6	384.8	385.1	385.2
130°	399.6	400.1	400.5	401.1	401.6	402.0	402.3	402.6	402.8	403.1	403.1
132.5°	416.9	417.4	417.9	418.4	418.9	419.2	419.2	419.3	419.4	419.5	419.6
135°	440.7	441.2	441.9	442.5	443.1	443.5	443.7	443.9	444.1	444.3	444.5
137.5°	464.5	465.1	465.6	466.1	466.6	466.8	466.8	466.8	466.8	466.7	466.9
140°	478.6	479.3	479.8	480.5	481.0	481.3	481.0	480.9	480.6	480.5	480.5
142.5°	492.0	492.6	493.2	493.8	494.4	494.7	494.6	494.6	494.6	494.6	494.4
145°	511.6	512.2	512.9	513.4	514.0	514.3	514.2	514.1	514.0	513.9	513.9
147.5°	527.8	528.5	529.3	530.0	530.7	531.0	530.9	530.8	530.7	530.5	530.4
150°	538.3	539.1	539.9	540.7	541.5	541.8	541.6	541.4	541.2	541.0	540.8
152.5°	548.0	548.7	549.5	550.2	551.0	551.2	551.0	550.8	550.6	550.4	550.2
155°	560.9	561.7	562.5	563.3	564.1	564.4	564.0	563.8	563.5	563.2	562.9
157.5°	571.6	572.4	573.2	574.1	574.9	575.1	574.8	574.5	574.2	573.9	573.8
160°	578.5	579.3	580.1	580.9	581.7	581.9	581.5	581.1	580.7	580.4	580.2
162.5°	584.6	585.6	586.5	587.3	588.2	588.4	587.8	587.2	586.7	586.1	586.0
165°	592.9	593.8	594.6	595.4	596.2	596.3	595.7	595.1	594.5	593.9	593.8
167.5°	598.7	599.7	600.6	601.5	602.4	602.5	601.7	601.0	600.3	599.6	599.4
170°	602.1	602.9	603.8	604.8	605.6	605.7	604.9	604.1	603.2	602.5	602.4
172.5°	604.2	605.1	606.0	606.9	607.8	607.9	607.2	606.4	605.7	605.0	604.8
175°	607.0	607.9	608.8	609.7	610.6	610.7	609.8	609.0	608.2	607.4	607.4
177.5°	608.6	609.3	609.9	610.5	611.2	611.2	610.7	610.1	609.6	609.0	608.9
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	729.4	727.8	725.9	722.5	718.4	716.2	712.9	710.7	706.3	702.7	698.9
5°	766.4	758.7	751.5	742.1	731.9	725.2	717.4	708.7	699.7	690.3	680.1
7.5°	804.8	791.0	775.9	759.7	743.9	729.4	715.4	701.8	689.0	673.6	660.5
10°	830.6	813.1	794.5	772.5	751.1	732.5	713.5	697.0	680.1	662.0	646.1
12.5°	856.3	833.1	806.8	782.6	756.9	734.4	712.1	690.9	669.8	649.7	631.2
15°	874.5	854.1	829.7	795.4	766.4	735.5	706.0	678.6	653.0	630.7	607.3
17.5°	886.5	860.2	833.9	801.1	763.2	728.5	695.1	663.8	634.9	606.7	584.1
20°	888.7	861.6	834.2	802.0	763.2	723.4	690.1	652.4	621.4	592.2	564.5
22.5°	888.0	857.2	827.4	794.2	756.5	719.9	679.5	641.1	607.4	578.8	549.9
25°	881.1	848.3	811.0	777.6	740.3	701.5	660.5	620.8	586.5	553.7	525.1
27.5°	875.4	832.9	790.7	751.7	715.7	680.1	641.0	600.2	562.2	528.9	502.0
30°	868.5	821.8	774.3	733.6	696.6	662.0	625.0	585.3	545.6	513.1	484.2
32.5°	862.2	807.9	757.7	713.4	674.3	640.6	606.5	568.7	529.7	496.7	467.9
35°	850.2	787.3	729.8	679.8	637.9	603.4	574.8	539.6	503.7	471.8	444.2
37.5°	834.8	760.2	698.5	646.1	600.2	563.8	537.2	510.2	475.8	445.0	420.0
40°	822.8	740.9	675.6	622.0	574.5	536.5	511.9	486.3	457.7	429.1	402.7
42.5°	807.6	723.6	652.4	594.8	547.8	510.8	484.9	463.2	438.0	411.3	386.7
45°	779.7	692.1	615.1	553.1	505.6	469.1	442.4	426.1	407.2	381.9	361.2
47.5°	738.7	654.4	574.7	510.7	461.7	427.9	402.8	387.2	373.9	355.1	336.3
50°	702.3	626.2	545.6	482.1	433.0	399.0	375.9	361.7	350.3	335.8	319.9
52.5°	661.7	590.8	517.0	454.2	405.6	372.1	349.4	336.9	327.4	317.0	301.3
55°	597.1	536.9	468.3	408.7	363.8	331.1	311.2	300.3	292.5	284.7	275.0
57.5°	525.9	478.8	418.0	363.5	322.3	292.4	273.9	263.3	257.2	253.2	247.6
60°	475.8	435.5	383.1	333.4	293.1	266.6	248.6	240.4	235.4	232.0	227.8
62.5°	429.3	396.2	347.7	302.4	267.1	242.1	225.9	218.1	213.2	211.6	208.0
65°	360.8	335.3	295.2	257.6	227.5	206.1	192.6	185.1	182.0	180.2	180.5
67.5°	293.3	277.7	245.7	213.6	189.5	171.6	160.7	155.0	153.4	151.1	151.0
70°	252.2	240.4	213.3	185.4	164.0	150.2	140.5	134.5	133.0	131.8	131.5
72.5°	215.8	205.6	182.0	159.6	140.5	128.3	120.3	116.7	114.2	113.5	113.4
75°	162.2	156.5	137.8	120.1	106.9	98.4	93.0	89.7	87.9	87.5	87.9
77.5°	115.3	110.4	98.5	85.9	77.6	71.1	66.5	65.4	63.4	63.5	63.1
80°	86.7	83.3	75.8	65.9	59.0	53.6	51.2	49.0	48.5	47.5	48.5
82.5°	62.8	59.3	54.2	47.8	42.1	38.9	36.4	35.8	35.4	35.0	35.2
85°	31.0	31.3	28.3	23.4	21.1	19.3	17.7	17.7	17.4	17.2	17.4
87.5°	11.7	11.2	10.1	9.2	7.8	6.9	6.5	6.6	6.0	5.9	6.3
90°	5.9	5.1	4.4	3.6	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	6.0	5.4	4.8	4.7	5.3	5.9	6.4	7.0	6.4	5.9	5.3
95°	14.9	18.7	22.5	24.6	24.9	25.2	25.4	25.7	25.4	25.2	24.9
97.5°	37.3	44.9	52.4	55.9	55.4	54.9	54.3	53.8	54.3	54.9	55.4
100°	77.9	77.5	77.0	76.7	76.4	76.0	75.8	75.5	75.8	76.0	76.4
102.5°	99.9	99.6	99.3	99.0	98.7	98.3	97.9	97.5	97.9	98.3	98.7
105°	134.7	134.7	134.7	134.5	134.1	133.7	133.2	132.8	133.2	133.7	134.1
107.5°	170.1	169.8	169.7	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
110°	193.9	193.8	193.5	193.5	193.5	193.5	193.5	193.5	193.5	193.5	193.5





TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	217.2	217.1	217.0	216.8	216.6	216.3	216.1	215.9	216.1	216.3	216.6
115°	252.0	251.9	251.8	251.5	251.0	250.5	250.0	249.5	250.0	250.5	251.0
117.5°	285.2	284.8	284.4	284.2	284.2	284.2	284.2	284.3	284.2	284.2	284.2
120°	306.3	306.0	305.7	305.5	305.7	305.8	305.9	306.0	305.9	305.8	305.7
122.5°	327.3	327.1	326.9	326.7	326.3	325.9	325.5	325.1	325.5	325.9	326.3
125°	358.0	358.0	358.0	357.6	356.9	356.2	355.5	354.8	355.5	356.2	356.9
127.5°	385.2	385.2	385.3	385.1	384.6	384.1	383.6	383.1	383.6	384.1	384.6
130°	403.0	402.8	402.7	402.4	402.0	401.5	400.9	400.4	400.9	401.5	402.0
132.5°	419.9	420.1	420.3	420.1	419.5	419.0	418.4	417.8	418.4	419.0	419.5
135°	444.7	444.9	445.1	444.9	444.3	443.7	443.1	442.5	443.1	443.7	444.3
137.5°	467.1	467.2	467.5	467.2	466.8	466.2	465.7	465.2	465.7	466.2	466.8
140°	480.6	480.8	480.9	480.8	480.6	480.4	480.2	480.0	480.2	480.4	480.6
142.5°	494.2	494.2	494.0	493.8	493.8	493.6	493.5	493.4	493.5	493.6	493.8
145°	513.9	513.9	513.9	513.8	513.6	513.4	513.2	513.0	513.2	513.4	513.6
147.5°	530.3	530.1	530.0	530.0	530.0	530.0	530.1	530.1	530.1	530.0	530.0
150°	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0	540.8	540.6	540.4
152.5°	550.0	549.8	549.6	549.7	550.2	550.6	551.0	551.5	551.0	550.6	550.2
155°	562.8	562.5	562.4	562.5	563.2	563.8	564.4	565.0	564.4	563.8	563.2
157.5°	573.8	573.8	573.8	573.9	574.3	574.6	575.0	575.4	575.0	574.6	574.3
160°	580.1	580.0	580.0	580.2	580.7	581.4	582.0	582.6	582.0	581.4	580.7
162.5°	585.9	585.8	585.7	586.0	586.5	587.2	587.8	588.4	587.8	587.2	586.5
165°	593.7	593.6	593.5	593.7	594.4	594.9	595.6	596.1	595.6	594.9	594.4
167.5°	599.4	599.3	599.2	599.4	600.1	600.7	601.3	601.9	601.3	600.7	600.1
170°	602.3	602.1	602.1	602.4	603.1	603.8	604.5	605.2	604.5	603.8	603.1
172.5°	604.7	604.4	604.3	604.5	605.2	605.9	606.7	607.4	606.7	605.9	605.2
175°	607.3	607.1	607.0	607.3	607.9	608.5	609.1	609.7	609.1	608.5	607.9
177.5°	608.8	608.7	608.6	608.9	609.3	609.8	610.3	610.8	610.3	609.8	609.3
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	696.7	694.0	691.9	687.1	684.4	680.8	677.9	681.0	677.7	679.1	677.0
5°	675.0	666.5	660.5	651.8	644.3	637.4	632.2	631.4	628.9	627.7	624.2
7.5°	648.9	638.3	628.0	616.6	606.9	597.1	590.8	585.7	582.3	577.7	574.6
10°	633.4	619.3	607.3	593.4	581.4	570.8	562.4	558.3	554.3	548.6	546.5
12.5°	614.4	599.8	585.1	570.3	558.8	547.0	539.8	533.5	530.8	524.3	523.6
15°	591.6	569.7	555.2	540.2	524.2	514.6	508.6	501.7	498.7	494.2	490.8
17.5°	564.4	544.8	526.7	511.2	497.5	489.4	481.9	477.1	472.0	469.1	463.6
20°	544.7	526.0	507.9	491.4	480.9	471.6	465.6	461.1	455.6	454.1	448.7
22.5°	528.1	507.5	490.1	476.3	464.8	454.2	447.7	444.7	440.9	436.3	435.2
25°	501.1	479.7	464.9	451.1	440.8	431.3	426.7	422.8	419.2	415.9	414.7
27.5°	477.7	458.6	441.1	428.6	419.7	410.9	406.9	402.2	399.5	396.9	393.6
30°	461.4	441.8	426.4	414.4	404.7	397.0	392.7	389.4	387.0	384.6	382.8
32.5°	444.5	426.4	411.5	399.7	390.1	384.2	380.4	378.1	375.4	372.6	370.3
35°	422.2	402.3	387.9	377.6	370.1	365.6	361.4	359.3	356.3	356.3	353.9
37.5°	397.1	379.9	367.2	357.8	351.1	347.1	342.5	341.1	339.1	337.9	337.1
40°	382.1	366.2	354.2	344.8	337.6	334.3	330.7	328.3	327.1	325.6	325.0
42.5°	366.8	351.6	340.0	331.4	325.1	322.3	318.9	317.3	314.8	312.8	312.5
45°	343.3	328.6	318.1	311.2	305.8	302.5	300.3	296.8	295.5	293.1	292.8
47.5°	321.2	307.0	296.7	291.0	286.2	283.5	280.2	276.6	275.2	274.0	273.9
50°	304.5	291.6	281.9	276.6	272.0	268.2	264.8	262.4	261.5	261.5	262.1
52.5°	287.7	276.7	268.5	261.9	257.6	253.4	250.4	248.9	247.6	249.0	250.1
55°	263.0	251.9	245.9	239.6	235.4	230.5	229.0	228.4	227.5	229.9	231.1
57.5°	236.9	229.1	222.0	215.8	212.0	209.2	207.2	206.8	208.5	209.6	213.6
60°	220.3	211.3	204.9	200.1	195.6	193.8	193.2	192.6	193.8	197.1	202.2
62.5°	202.0	194.6	187.8	184.3	180.9	177.9	177.8	178.2	180.5	184.3	189.5
65°	175.2	168.8	164.3	160.1	157.4	155.6	156.2	157.4	160.1	165.2	171.0
67.5°	147.9	143.5	139.5	136.1	133.5	133.5	134.1	135.9	139.1	145.0	150.2
70°	130.3	125.5	122.2	120.6	118.6	117.4	119.1	122.2	124.8	130.3	134.8
72.5°	112.7	108.6	106.1	105.0	104.1	103.1	103.8	107.0	110.7	116.1	121.4
75°	86.7	85.2	83.3	82.1	81.3	81.8	82.5	85.5	88.5	94.2	100.2
77.5°	63.3	61.7	60.6	60.3	59.8	60.1	61.8	64.0	67.0	71.1	75.7
80°	47.8	47.2	46.7	46.3	46.3	46.7	49.0	50.5	53.2	57.2	60.8
82.5°	34.9	34.5	34.4	34.3	34.5	34.6	36.0	38.0	40.2	43.3	46.3
85°	18.4	17.7	18.7	18.9	18.4	19.3	19.9	21.1	21.9	23.4	25.0
87.5°	6.7	7.4	7.3	7.7	7.8	8.4	8.3	9.3	9.9	10.5	10.4
90°	3.6	4.4	5.1	5.9	6.5	7.2	7.8	8.2	8.7	9.3	9.7
92.5°	4.7	4.8	5.4	6.0	6.6	7.2	7.8	8.2	8.7	9.3	9.6
95°	24.6	22.5	18.7	14.9	11.0	7.2	7.8	8.2	8.7	9.3	9.5
97.5°	55.9	52.4	44.9	37.3	29.8	22.3	19.4	16.6	13.7	10.9	9.5
100°	76.7	77.0	77.5	77.9	78.3	78.7	63.7	48.7	33.7	18.8	11.1
102.5°	99.0	99.3	99.6	99.9	100.1	100.4	97.5	94.7	91.8	89.0	84.2
105°	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.6	169.7	169.8	170.1	170.3	170.5	170.5	170.6	170.6	170.6	170.4
110°	193.5	193.5	193.8	193.9	194.2	194.3	194.1	193.8	193.5	193.1	193.1



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	216.8	217.0	217.1	217.2	217.4	217.5	217.1	216.7	216.3	215.9	215.7
115°	251.5	251.8	251.9	252.0	252.1	252.2	251.8	251.4	251.0	250.6	250.1
117.5°	284.2	284.4	284.8	285.2	285.5	285.9	285.4	284.9	284.3	283.8	283.4
120°	305.5	305.7	306.0	306.3	306.6	306.9	306.7	306.5	306.3	306.1	305.7
122.5°	326.7	326.9	327.1	327.3	327.3	327.5	327.3	327.1	326.9	326.7	326.3
125°	357.6	358.0	358.0	358.0	358.0	358.0	357.6	357.2	356.7	356.3	356.0
127.5°	385.1	385.3	385.2	385.2	385.2	385.1	384.8	384.6	384.4	384.2	383.7
130°	402.4	402.7	402.8	403.0	403.1	403.1	402.8	402.6	402.3	402.0	401.6
132.5°	420.1	420.3	420.1	419.9	419.6	419.5	419.4	419.3	419.2	419.2	418.9
135°	444.9	445.1	444.9	444.7	444.5	444.3	444.1	443.9	443.7	443.5	443.1
137.5°	467.2	467.5	467.2	467.1	466.9	466.7	466.8	466.8	466.8	466.8	466.6
140°	480.8	480.9	480.8	480.6	480.5	480.5	480.6	480.9	481.0	481.3	481.0
142.5°	493.8	494.0	494.2	494.2	494.4	494.6	494.6	494.6	494.6	494.7	494.4
145°	513.8	513.9	513.9	513.9	513.9	513.9	514.0	514.1	514.2	514.3	514.0
147.5°	530.0	530.0	530.1	530.3	530.4	530.5	530.7	530.8	530.9	531.0	530.7
150°	540.2	540.2	540.4	540.6	540.8	541.0	541.2	541.4	541.6	541.8	541.5
152.5°	549.7	549.6	549.8	550.0	550.2	550.4	550.6	550.8	551.0	551.2	551.0
155°	562.5	562.4	562.5	562.8	562.9	563.2	563.5	563.8	564.0	564.4	564.1
157.5°	573.9	573.8	573.8	573.8	573.8	573.9	574.2	574.5	574.8	575.1	574.9
160°	580.2	580.0	580.0	580.1	580.2	580.4	580.7	581.1	581.5	581.9	581.7
162.5°	586.0	585.7	585.8	585.9	586.0	586.1	586.7	587.2	587.8	588.4	588.2
165°	593.7	593.5	593.6	593.7	593.8	593.9	594.5	595.1	595.7	596.3	596.2
167.5°	599.4	599.2	599.3	599.4	599.4	599.6	600.3	601.0	601.7	602.5	602.4
170°	602.4	602.1	602.1	602.3	602.4	602.5	603.2	604.1	604.9	605.7	605.6
172.5°	604.5	604.3	604.4	604.7	604.8	605.0	605.7	606.4	607.2	607.9	607.8
175°	607.3	607.0	607.1	607.3	607.4	607.4	608.2	609.0	609.8	610.7	610.6
177.5°	608.9	608.6	608.7	608.8	608.9	609.0	609.6	610.1	610.7	611.2	611.2
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	675.5	677.2	675.8	677.7	675.8	677.2	675.5	677.0	679.1	677.7	681.0
5°	622.7	619.9	621.7	620.5	621.7	619.9	622.7	624.2	627.7	628.9	631.4
7.5°	573.8	571.2	568.2	566.8	568.2	571.2	573.8	574.6	577.7	582.3	585.7
10°	543.2	539.9	539.6	537.5	539.6	539.9	543.2	546.5	548.6	554.3	558.3
12.5°	520.8	517.7	514.3	513.4	514.3	517.7	520.8	523.6	524.3	530.8	533.5
15°	489.0	486.6	484.5	486.3	484.5	486.6	489.0	490.8	494.2	498.7	501.7
17.5°	462.6	460.6	460.3	458.0	460.3	460.6	462.6	463.6	469.1	472.0	477.1
20°	446.0	444.5	445.0	441.2	445.0	444.5	446.0	448.7	454.1	455.6	461.1
22.5°	432.8	429.8	429.4	428.6	429.4	429.8	432.8	435.2	436.3	440.9	444.7
25°	412.0	410.5	409.0	410.5	409.0	410.5	412.0	414.7	415.9	419.2	422.8
27.5°	393.9	392.1	391.7	391.8	391.7	392.1	393.9	393.6	396.9	399.5	402.2
30°	382.8	379.8	380.1	379.8	380.1	379.8	382.8	382.8	384.6	387.0	389.4
32.5°	370.7	368.7	368.3	367.7	368.3	368.7	370.7	370.3	372.6	375.4	378.1
35°	353.0	353.0	351.5	351.5	351.5	353.0	353.0	353.9	356.3	356.3	359.3
37.5°	336.3	336.0	335.1	335.3	335.1	336.0	336.3	337.1	337.9	339.1	341.1
40°	323.8	323.5	322.6	320.8	322.6	323.5	323.8	325.0	325.6	327.1	328.3
42.5°	311.8	310.8	310.3	309.7	310.3	310.8	311.8	312.5	312.8	314.8	317.3
45°	292.8	292.8	292.2	291.9	292.2	292.8	292.8	292.8	293.1	295.5	296.8
47.5°	274.4	275.0	276.1	275.9	276.1	275.0	274.4	273.9	274.0	275.2	276.6
50°	263.3	263.6	264.5	264.8	264.5	263.6	263.3	262.1	261.5	261.5	262.4
52.5°	251.0	252.8	253.9	253.7	253.9	252.8	251.0	250.1	249.0	247.6	248.9
55°	233.9	235.9	238.1	238.4	238.1	235.9	233.9	231.1	229.9	227.5	228.4
57.5°	216.8	219.8	222.0	222.7	222.0	219.8	216.8	213.6	209.6	208.5	206.8
60°	205.3	209.1	211.8	213.1	211.8	209.1	205.3	202.2	197.1	193.8	192.6
62.5°	194.2	198.5	201.3	201.5	201.3	198.5	194.2	189.5	184.3	180.5	178.2
65°	176.0	180.5	183.0	184.7	183.0	180.5	176.0	171.0	165.2	160.1	157.4
67.5°	156.5	161.1	163.7	165.2	163.7	161.1	156.5	150.2	145.0	139.1	135.9
70°	142.4	146.9	150.4	151.7	150.4	146.9	142.4	134.8	130.3	124.8	122.2
72.5°	128.4	132.4	135.3	136.7	135.3	132.4	128.4	121.4	116.1	110.7	107.0
75°	104.1	109.6	112.3	113.8	112.3	109.6	104.1	100.2	94.2	88.5	85.5
77.5°	80.3	85.2	86.8	87.6	86.8	85.2	80.3	75.7	71.1	67.0	64.0
80°	64.4	67.4	69.6	69.8	69.6	67.4	64.4	60.8	57.2	53.2	50.5
82.5°	49.5	52.0	52.7	53.5	52.7	52.0	49.5	46.3	43.3	40.2	38.0
85°	27.1	28.3	28.6	28.3	28.6	28.3	27.1	25.0	23.4	21.9	21.1
87.5°	10.9	10.7	10.8	11.3	10.8	10.7	10.9	10.4	10.5	9.9	9.3
90°	10.0	10.2	10.5	10.9	10.5	10.2	10.0	9.7	9.3	8.7	8.2
92.5°	9.7	9.8	10.0	10.1	10.0	9.8	9.7	9.6	9.3	8.7	8.2
95°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.3	8.7	8.2
97.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.9	13.7	16.6
100°	10.7	10.3	9.9	9.5	9.9	10.3	10.7	11.1	18.8	33.7	48.7
102.5°	77.3	70.5	63.7	56.9	63.7	70.5	77.3	84.2	89.0	91.8	94.7
105°	134.5	134.4	134.4	134.2	134.4	134.4	134.5	134.7	134.7	134.7	134.7
107.5°	170.2	169.8	169.5	169.2	169.5	169.8	170.2	170.4	170.6	170.6	170.6
110°	193.1	193.2	193.4	193.5	193.4	193.2	193.1	193.1	193.1	193.5	193.8



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	215.6	215.4	215.3	215.2	215.3	215.4	215.6	215.7	215.9	216.3	216.7
115°	249.5	248.9	248.3	247.7	248.3	248.9	249.5	250.1	250.6	251.0	251.4
117.5°	283.2	282.9	282.7	282.4	282.7	282.9	283.2	283.4	283.8	284.3	284.9
120°	305.2	304.8	304.2	303.7	304.2	304.8	305.2	305.7	306.1	306.3	306.5
122.5°	325.7	325.1	324.6	324.0	324.6	325.1	325.7	326.3	326.7	326.9	327.1
125°	355.7	355.4	355.1	354.8	355.1	355.4	355.7	356.0	356.3	356.7	357.2
127.5°	382.9	382.2	381.5	380.7	381.5	382.2	382.9	383.7	384.2	384.4	384.6
130°	401.1	400.5	400.1	399.6	400.1	400.5	401.1	401.6	402.0	402.3	402.6
132.5°	418.4	417.9	417.4	416.9	417.4	417.9	418.4	418.9	419.2	419.2	419.3
135°	442.5	441.9	441.2	440.7	441.2	441.9	442.5	443.1	443.5	443.7	443.9
137.5°	466.1	465.6	465.1	464.5	465.1	465.6	466.1	466.6	466.8	466.8	466.8
140°	480.5	479.8	479.3	478.6	479.3	479.8	480.5	481.0	481.3	481.0	480.9
142.5°	493.8	493.2	492.6	492.0	492.6	493.2	493.8	494.4	494.7	494.6	494.6
145°	513.4	512.9	512.2	511.6	512.2	512.9	513.4	514.0	514.3	514.2	514.1
147.5°	530.0	529.3	528.5	527.8	528.5	529.3	530.0	530.7	531.0	530.9	530.8
150°	540.7	539.9	539.1	538.3	539.1	539.9	540.7	541.5	541.8	541.6	541.4
152.5°	550.2	549.5	548.7	548.0	548.7	549.5	550.2	551.0	551.2	551.0	550.8
155°	563.3	562.5	561.7	560.9	561.7	562.5	563.3	564.1	564.4	564.0	563.8
157.5°	574.1	573.2	572.4	571.6	572.4	573.2	574.1	574.9	575.1	574.8	574.5
160°	580.9	580.1	579.3	578.5	579.3	580.1	580.9	581.7	581.9	581.5	581.1
162.5°	587.3	586.5	585.6	584.6	585.6	586.5	587.3	588.2	588.4	587.8	587.2
165°	595.4	594.6	593.8	592.9	593.8	594.6	595.4	596.2	596.3	595.7	595.1
167.5°	601.5	600.6	599.7	598.7	599.7	600.6	601.5	602.4	602.5	601.7	601.0
170°	604.8	603.8	602.9	602.1	602.9	603.8	604.8	605.6	605.7	604.9	604.1
172.5°	606.9	606.0	605.1	604.2	605.1	606.0	606.9	607.8	607.9	607.2	606.4
175°	609.7	608.8	607.9	607.0	607.9	608.8	609.7	610.6	610.7	609.8	609.0
177.5°	610.5	609.9	609.3	608.6	609.3	609.9	610.5	611.2	611.2	610.7	610.1
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	677.9	680.8	684.4	687.1	691.9	694.0	696.7	698.9	702.7	706.3	710.7
5°	632.2	637.4	644.3	651.8	660.5	666.5	675.0	680.1	690.3	699.7	708.7
7.5°	590.8	597.1	606.9	616.6	628.0	638.3	648.9	660.5	673.6	689.0	701.8
10°	562.4	570.8	581.4	593.4	607.3	619.3	633.4	646.1	662.0	680.1	697.0
12.5°	539.8	547.0	558.8	570.3	585.1	599.8	614.4	631.2	649.7	669.8	690.9
15°	508.6	514.6	524.2	540.2	555.2	569.7	591.6	607.3	630.7	653.0	678.6
17.5°	481.9	489.4	497.5	511.2	526.7	544.8	564.4	584.1	606.7	634.9	663.8
20°	465.6	471.6	480.9	491.4	507.9	526.0	544.7	564.5	592.2	621.4	652.4
22.5°	447.7	454.2	464.8	476.3	490.1	507.5	528.1	549.9	578.8	607.4	641.1
25°	426.7	431.3	440.8	451.1	464.9	479.7	501.1	525.1	553.7	586.5	620.8
27.5°	406.9	410.9	419.7	428.6	441.1	458.6	477.7	502.0	528.9	562.2	600.2
30°	392.7	397.0	404.7	414.4	426.4	441.8	461.4	484.2	513.1	545.6	585.3
32.5°	380.4	384.2	390.1	399.7	411.5	426.4	444.5	467.9	496.7	529.7	568.7
35°	361.4	365.6	370.1	377.6	387.9	402.3	422.2	444.2	471.8	503.7	539.6
37.5°	342.5	347.1	351.1	357.8	367.2	379.9	397.1	420.0	445.0	475.8	510.2
40°	330.7	334.3	337.6	344.8	354.2	366.2	382.1	402.7	429.1	457.7	486.3
42.5°	318.9	322.3	325.1	331.4	340.0	351.6	366.8	386.7	411.3	438.0	463.2
45°	300.3	302.5	305.8	311.2	318.1	328.6	343.3	361.2	381.9	407.2	426.1
47.5°	280.2	283.5	286.2	291.0	296.7	307.0	321.2	336.3	355.1	373.9	387.2
50°	264.8	268.2	272.0	276.6	281.9	291.6	304.5	319.9	335.8	350.3	361.7
52.5°	250.4	253.4	257.6	261.9	268.5	276.7	287.7	301.3	317.0	327.4	336.9
55°	229.0	230.5	235.4	239.6	245.9	251.9	263.0	275.0	284.7	292.5	300.3
57.5°	207.2	209.2	212.0	215.8	222.0	229.1	236.9	247.6	253.2	257.2	263.3
60°	193.2	193.8	195.6	200.1	204.9	211.3	220.3	227.8	232.0	235.4	240.4
62.5°	177.8	177.9	180.9	184.3	187.8	194.6	202.0	208.0	211.6	213.2	218.1
65°	156.2	155.6	157.4	160.1	164.3	168.8	175.2	180.5	180.2	182.0	185.1
67.5°	134.1	133.5	133.5	136.1	139.5	143.5	147.9	151.0	151.1	153.4	155.0
70°	119.1	117.4	118.6	120.6	122.2	125.5	130.3	131.5	131.8	133.0	134.5
72.5°	103.8	103.1	104.1	105.0	106.1	108.6	112.7	113.4	113.5	114.2	116.7
75°	82.5	81.8	81.3	82.1	83.3	85.2	86.7	87.9	87.5	87.9	89.7
77.5°	61.8	60.1	59.8	60.3	60.6	61.7	63.3	63.1	63.5	63.4	65.4
80°	49.0	46.7	46.3	46.3	46.7	47.2	47.8	48.5	47.5	48.5	49.0
82.5°	36.0	34.6	34.5	34.3	34.4	34.5	34.9	35.2	35.0	35.4	35.8
85°	19.9	19.3	18.4	18.9	18.7	17.7	18.4	17.4	17.2	17.4	17.7
87.5°	8.3	8.4	7.8	7.7	7.3	7.4	6.7	6.3	5.9	6.0	6.6
90°	7.8	7.2	6.5	5.9	5.1	4.4	3.6	2.9	2.1	1.3	0.5
92.5°	7.8	7.2	6.6	6.0	5.4	4.8	4.7	5.3	5.9	6.4	7.0
95°	7.8	7.2	11.0	14.9	18.7	22.5	24.6	24.9	25.2	25.4	25.7
97.5°	19.4	22.3	29.8	37.3	44.9	52.4	55.9	55.4	54.9	54.3	53.8
100°	63.7	78.7	78.3	77.9	77.5	77.0	76.7	76.4	76.0	75.8	75.5
102.5°	97.5	100.4	100.1	99.9	99.6	99.3	99.0	98.7	98.3	97.9	97.5
105°	134.7	134.7	134.7	134.7	134.7	134.7	134.5	134.1	133.7	133.2	132.8
107.5°	170.5	170.5	170.3	170.1	169.8	169.7	169.6	169.6	169.6	169.6	169.6
110°	194.1	194.3	194.2	193.9	193.8	193.5	193.5	193.5	193.5	193.5	193.5



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	217.1	217.5	217.4	217.2	217.1	217.0	216.8	216.6	216.3	216.1	215.9
115°	251.8	252.2	252.1	252.0	251.9	251.8	251.5	251.0	250.5	250.0	249.5
117.5°	285.4	285.9	285.5	285.2	284.8	284.4	284.2	284.2	284.2	284.2	284.3
120°	306.7	306.9	306.6	306.3	306.0	305.7	305.5	305.7	305.8	305.9	306.0
122.5°	327.3	327.5	327.3	327.3	327.1	326.9	326.7	326.3	325.9	325.5	325.1
125°	357.6	358.0	358.0	358.0	358.0	358.0	357.6	356.9	356.2	355.5	354.8
127.5°	384.8	385.1	385.2	385.2	385.2	385.3	385.1	384.6	384.1	383.6	383.1
130°	402.8	403.1	403.1	403.0	402.8	402.7	402.4	402.0	401.5	400.9	400.4
132.5°	419.4	419.5	419.6	419.9	420.1	420.3	420.1	419.5	419.0	418.4	417.8
135°	444.1	444.3	444.5	444.7	444.9	445.1	444.9	444.3	443.7	443.1	442.5
137.5°	466.8	466.7	466.9	467.1	467.2	467.5	467.2	466.8	466.2	465.7	465.2
140°	480.6	480.5	480.5	480.6	480.8	480.9	480.8	480.6	480.4	480.2	480.0
142.5°	494.6	494.6	494.4	494.2	494.2	494.0	493.8	493.8	493.6	493.5	493.4
145°	514.0	513.9	513.9	513.9	513.9	513.9	513.8	513.6	513.4	513.2	513.0
147.5°	530.7	530.5	530.4	530.3	530.1	530.0	530.0	530.0	530.0	530.1	530.1
150°	541.2	541.0	540.8	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0
152.5°	550.6	550.4	550.2	550.0	549.8	549.6	549.7	550.2	550.6	551.0	551.5
155°	563.5	563.2	562.9	562.8	562.5	562.4	562.5	563.2	563.8	564.4	565.0
157.5°	574.2	573.9	573.8	573.8	573.8	573.8	573.9	574.3	574.6	575.0	575.4
160°	580.7	580.4	580.2	580.1	580.0	580.0	580.2	580.7	581.4	582.0	582.6
162.5°	586.7	586.1	586.0	585.9	585.8	585.7	586.0	586.5	587.2	587.8	588.4
165°	594.5	593.9	593.8	593.7	593.6	593.5	593.7	594.4	594.9	595.6	596.1
167.5°	600.3	599.6	599.4	599.4	599.3	599.2	599.4	600.1	600.7	601.3	601.9
170°	603.2	602.5	602.4	602.3	602.1	602.1	602.4	603.1	603.8	604.5	605.2
172.5°	605.7	605.0	604.8	604.7	604.4	604.3	604.5	605.2	605.9	606.7	607.4
175°	608.2	607.4	607.4	607.3	607.1	607.0	607.3	607.9	608.5	609.1	609.7
177.5°	609.6	609.0	608.9	608.8	608.7	608.6	608.9	609.3	609.8	610.3	610.8
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	712.9	716.2	718.4	722.5	725.9	727.8	729.4	730.9	732.6	734.0	738.2
5°	717.4	725.2	731.9	742.1	751.5	758.7	766.4	773.4	779.1	787.3	793.5
7.5°	715.4	729.4	743.9	759.7	775.9	791.0	804.8	817.8	829.5	843.7	856.1
10°	713.5	732.5	751.1	772.5	794.5	813.1	830.6	848.3	861.3	879.3	894.7
12.5°	712.1	734.4	756.9	782.6	806.8	833.1	856.3	869.3	889.0	903.4	921.6
15°	706.0	735.5	766.4	795.4	829.7	854.1	874.5	899.8	918.1	936.5	956.3
17.5°	695.1	728.5	763.2	801.1	833.9	860.2	886.5	910.9	932.8	957.4	982.1
20°	690.1	723.4	763.2	802.0	834.2	861.6	888.7	915.4	939.5	971.1	999.7
22.5°	679.5	719.9	756.5	794.2	827.4	857.2	888.0	918.3	950.3	986.0	1021.8
25°	660.5	701.5	740.3	777.6	811.0	848.3	881.1	921.8	962.7	1010.0	1054.5
27.5°	641.0	680.1	715.7	751.7	790.7	832.9	875.4	921.5	975.2	1034.7	1097.6
30°	625.0	662.0	696.6	733.6	774.3	821.8	868.5	923.3	985.2	1052.3	1127.0
32.5°	606.5	640.6	674.3	713.4	757.7	807.9	862.2	922.3	996.8	1073.1	1149.9
35°	574.8	603.4	637.9	679.8	729.8	787.3	850.2	921.1	1006.6	1094.2	1158.9
37.5°	537.2	563.8	600.2	646.1	698.5	760.2	834.8	919.0	1009.8	1079.6	1100.5
40°	511.9	536.5	574.5	622.0	675.6	740.9	822.8	911.8	999.7	1044.3	1027.1
42.5°	484.9	510.8	547.8	594.8	652.4	723.6	807.6	896.7	970.3	987.1	927.9
45°	442.4	469.1	505.6	553.1	615.1	692.1	779.7	860.6	903.1	872.7	780.9
47.5°	402.8	427.9	461.7	510.7	574.7	654.4	738.7	803.3	806.7	734.1	636.1
50°	375.9	399.0	433.0	482.1	545.6	626.2	702.3	753.2	730.4	648.2	554.1
52.5°	349.4	372.1	405.6	454.2	517.0	590.8	661.7	697.4	654.3	570.0	489.5
55°	311.2	331.1	363.8	408.7	468.3	536.9	597.1	609.3	553.4	470.3	405.0
57.5°	273.9	292.4	322.3	363.5	418.0	478.8	525.9	523.2	464.1	392.8	341.0
60°	248.6	266.6	293.1	333.4	383.1	435.5	475.8	466.1	407.5	346.1	302.5
62.5°	225.9	242.1	267.1	302.4	347.7	396.2	429.3	415.1	357.6	304.0	269.4
65°	192.6	206.1	227.5	257.6	295.2	335.3	360.8	342.5	293.4	251.6	223.9
67.5°	160.7	171.6	189.5	213.6	245.7	277.7	293.3	274.9	235.6	205.1	184.6
70°	140.5	150.2	164.0	185.4	213.3	240.4	252.2	235.6	201.9	175.7	161.0
72.5°	120.3	128.3	140.5	159.6	182.0	205.6	215.8	200.0	172.3	150.2	136.4
75°	93.0	98.4	106.9	120.1	137.8	156.5	162.2	148.4	130.6	114.1	105.0
77.5°	66.5	71.1	77.6	85.9	98.5	110.4	115.3	107.3	93.6	83.1	75.7
80°	51.2	53.6	59.0	65.9	75.8	83.3	86.7	81.5	71.9	64.1	58.4
82.5°	36.4	38.9	42.1	47.8	54.2	59.3	62.8	59.4	52.4	46.3	42.9
85°	17.7	19.3	21.1	23.4	28.3	31.3	31.0	28.9	26.1	23.8	21.9
87.5°	6.5	6.9	7.8	9.2	10.1	11.2	11.7	11.4	10.6	10.0	9.3
90°	1.3	2.1	2.9	3.6	4.4	5.1	5.9	6.5	7.2	7.8	8.2
92.5°	6.4	5.9	5.3	4.7	4.8	5.4	6.0	6.6	7.2	7.8	8.2
95°	25.4	25.2	24.9	24.6	22.5	18.7	14.9	11.0	7.2	7.8	8.2
97.5°	54.3	54.9	55.4	55.9	52.4	44.9	37.3	29.8	22.3	19.4	16.6
100°	75.8	76.0	76.4	76.7	77.0	77.5	77.9	78.3	78.7	63.7	48.7
102.5°	97.9	98.3	98.7	99.0	99.3	99.6	99.9	100.1	100.4	97.5	94.7
105°	133.2	133.7	134.1	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.6	169.6	169.6	169.6	169.7	169.8	170.1	170.3	170.5	170.5	170.6
110°	193.5	193.5	193.5	193.5	193.5	193.8	193.9	194.2	194.3	194.1	193.8





TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	216.1	216.3	216.6	216.8	217.0	217.1	217.2	217.4	217.5	217.1	216.7
115°	250.0	250.5	251.0	251.5	251.8	251.9	252.0	252.1	252.2	251.8	251.4
117.5°	284.2	284.2	284.2	284.2	284.4	284.8	285.2	285.5	285.9	285.4	284.9
120°	305.9	305.8	305.7	305.5	305.7	306.0	306.3	306.6	306.9	306.7	306.5
122.5°	325.5	325.9	326.3	326.7	326.9	327.1	327.3	327.3	327.5	327.3	327.1
125°	355.5	356.2	356.9	357.6	358.0	358.0	358.0	358.0	358.0	357.6	357.2
127.5°	383.6	384.1	384.6	385.1	385.3	385.2	385.2	385.2	385.1	384.8	384.6
130°	400.9	401.5	402.0	402.4	402.7	402.8	403.0	403.1	403.1	402.8	402.6
132.5°	418.4	419.0	419.5	420.1	420.3	420.1	419.9	419.6	419.5	419.4	419.3
135°	443.1	443.7	444.3	444.9	445.1	444.9	444.7	444.5	444.3	444.1	443.9
137.5°	465.7	466.2	466.8	467.2	467.5	467.2	467.1	466.9	466.7	466.8	466.8
140°	480.2	480.4	480.6	480.8	480.9	480.8	480.6	480.5	480.5	480.6	480.9
142.5°	493.5	493.6	493.8	493.8	494.0	494.2	494.2	494.4	494.6	494.6	494.6
145°	513.2	513.4	513.6	513.8	513.9	513.9	513.9	513.9	513.9	514.0	514.1
147.5°	530.1	530.0	530.0	530.0	530.0	530.1	530.3	530.4	530.5	530.7	530.8
150°	540.8	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0	541.2	541.4
152.5°	551.0	550.6	550.2	549.7	549.6	549.8	550.0	550.2	550.4	550.6	550.8
155°	564.4	563.8	563.2	562.5	562.4	562.5	562.8	562.9	563.2	563.5	563.8
157.5°	575.0	574.6	574.3	573.9	573.8	573.8	573.8	573.8	573.9	574.2	574.5
160°	582.0	581.4	580.7	580.2	580.0	580.0	580.1	580.2	580.4	580.7	581.1
162.5°	587.8	587.2	586.5	586.0	585.7	585.8	585.9	586.0	586.1	586.7	587.2
165°	595.6	594.9	594.4	593.7	593.5	593.6	593.7	593.8	593.9	594.5	595.1
167.5°	601.3	600.7	600.1	599.4	599.2	599.3	599.4	599.4	599.6	600.3	601.0
170°	604.5	603.8	603.1	602.4	602.1	602.1	602.3	602.4	602.5	603.2	604.1
172.5°	606.7	605.9	605.2	604.5	604.3	604.4	604.7	604.8	605.0	605.7	606.4
175°	609.1	608.5	607.9	607.3	607.0	607.1	607.3	607.4	607.4	608.2	609.0
177.5°	610.3	609.8	609.3	608.9	608.6	608.7	608.8	608.9	609.0	609.6	610.1
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	741.5	743.4	747.5	746.1	748.0	748.9	750.0
5°	801.4	811.0	815.2	814.6	820.9	819.4	817.9
7.5°	869.0	879.2	884.8	891.8	896.0	896.2	899.8
10°	907.3	920.5	926.0	933.5	938.3	941.0	940.7
12.5°	936.7	947.1	959.2	962.9	969.4	972.8	971.5
15°	972.0	988.6	1001.2	1007.5	1015.7	1018.0	1021.4
17.5°	1003.5	1025.7	1040.5	1060.1	1067.5	1072.1	1069.4
20°	1027.4	1056.5	1071.3	1094.8	1107.7	1114.7	1112.2
22.5°	1055.6	1087.1	1114.4	1134.7	1154.4	1163.8	1165.7
25°	1103.8	1147.2	1187.2	1213.9	1238.3	1244.0	1256.7
27.5°	1157.8	1208.9	1251.6	1279.8	1296.8	1303.1	1307.1
30°	1191.7	1242.5	1274.8	1292.8	1298.2	1297.6	1297.0
32.5°	1208.3	1240.2	1246.3	1241.3	1228.9	1218.4	1207.4
35°	1184.8	1161.0	1125.5	1079.7	1046.1	1012.0	1008.7
37.5°	1065.6	989.5	930.4	864.4	826.3	802.8	786.5
40°	953.3	867.0	795.4	739.7	700.8	685.6	670.5
42.5°	831.6	749.0	685.6	639.1	609.9	592.9	580.9
45°	675.6	602.8	553.1	519.4	496.2	483.0	475.5
47.5°	553.6	499.7	457.6	433.2	417.2	406.9	406.9
50°	488.1	436.7	408.7	389.4	375.6	367.4	368.9
52.5°	430.1	391.7	367.7	351.6	341.4	336.4	336.2
55°	359.7	331.9	316.3	304.5	297.6	291.9	293.1
57.5°	307.6	284.2	273.8	264.0	259.2	256.9	253.7
60°	275.4	257.3	248.3	240.4	235.6	233.9	230.5
62.5°	246.7	232.5	223.7	217.3	213.0	212.4	209.8
65°	207.3	196.5	188.7	185.7	181.2	180.0	180.0
67.5°	171.0	163.2	157.1	154.3	152.3	152.7	151.1
70°	148.1	141.7	137.8	134.8	133.3	133.6	132.4
72.5°	129.5	122.5	119.1	117.2	115.3	116.1	115.6
75°	98.1	94.5	92.7	90.9	89.7	89.0	88.5
77.5°	72.0	68.8	67.5	66.5	66.6	65.2	66.3
80°	55.7	53.0	52.0	50.5	50.2	50.2	50.0
82.5°	40.7	39.2	38.6	37.3	36.8	37.2	36.4
85°	21.1	19.9	19.6	19.6	18.9	18.4	19.9
87.5°	9.4	8.6	8.6	8.5	8.6	8.4	7.9
90°	8.7	9.3	9.7	10.0	10.2	10.5	10.9
92.5°	8.7	9.3	9.6	9.7	9.8	10.0	10.1
95°	8.7	9.3	9.5	9.5	9.5	9.5	9.5
97.5°	13.7	10.9	9.5	9.5	9.5	9.5	9.5
100°	33.7	18.8	11.1	10.7	10.3	9.9	9.5
102.5°	91.8	89.0	84.2	77.3	70.5	63.7	56.9
105°	134.7	134.7	134.7	134.5	134.4	134.4	134.2
107.5°	170.6	170.6	170.4	170.2	169.8	169.5	169.2
110°	193.5	193.1	193.1	193.1	193.2	193.4	193.5



TEST NUMBER: P333169-927

CATALOG NUMBER: S125DIP-S610D590U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.3	215.9	215.7	215.6	215.4	215.3	215.2
115°	251.0	250.6	250.1	249.5	248.9	248.3	247.7
117.5°	284.3	283.8	283.4	283.2	282.9	282.7	282.4
120°	306.3	306.1	305.7	305.2	304.8	304.2	303.7
122.5°	326.9	326.7	326.3	325.7	325.1	324.6	324.0
125°	356.7	356.3	356.0	355.7	355.4	355.1	354.8
127.5°	384.4	384.2	383.7	382.9	382.2	381.5	380.7
130°	402.3	402.0	401.6	401.1	400.5	400.1	399.6
132.5°	419.2	419.2	418.9	418.4	417.9	417.4	416.9
135°	443.7	443.5	443.1	442.5	441.9	441.2	440.7
137.5°	466.8	466.8	466.6	466.1	465.6	465.1	464.5
140°	481.0	481.3	481.0	480.5	479.8	479.3	478.6
142.5°	494.6	494.7	494.4	493.8	493.2	492.6	492.0
145°	514.2	514.3	514.0	513.4	512.9	512.2	511.6
147.5°	530.9	531.0	530.7	530.0	529.3	528.5	527.8
150°	541.6	541.8	541.5	540.7	539.9	539.1	538.3
152.5°	551.0	551.2	551.0	550.2	549.5	548.7	548.0
155°	564.0	564.4	564.1	563.3	562.5	561.7	560.9
157.5°	574.8	575.1	574.9	574.1	573.2	572.4	571.6
160°	581.5	581.9	581.7	580.9	580.1	579.3	578.5
162.5°	587.8	588.4	588.2	587.3	586.5	585.6	584.6
165°	595.7	596.3	596.2	595.4	594.6	593.8	592.9
167.5°	601.7	602.5	602.4	601.5	600.6	599.7	598.7
170°	604.9	605.7	605.6	604.8	603.8	602.9	602.1
172.5°	607.2	607.9	607.8	606.9	606.0	605.1	604.2
175°	609.8	610.7	610.6	609.7	608.8	607.9	607.0
177.5°	610.7	611.2	611.2	610.5	609.9	609.3	608.6
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7

(END OF REPORT)