

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: P333170-840

Luminaire Tested: **S125DIP-S610D590U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333170-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S610D590U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4617.7 lumens
Efficiency: N/A
Efficacy: 140.8 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

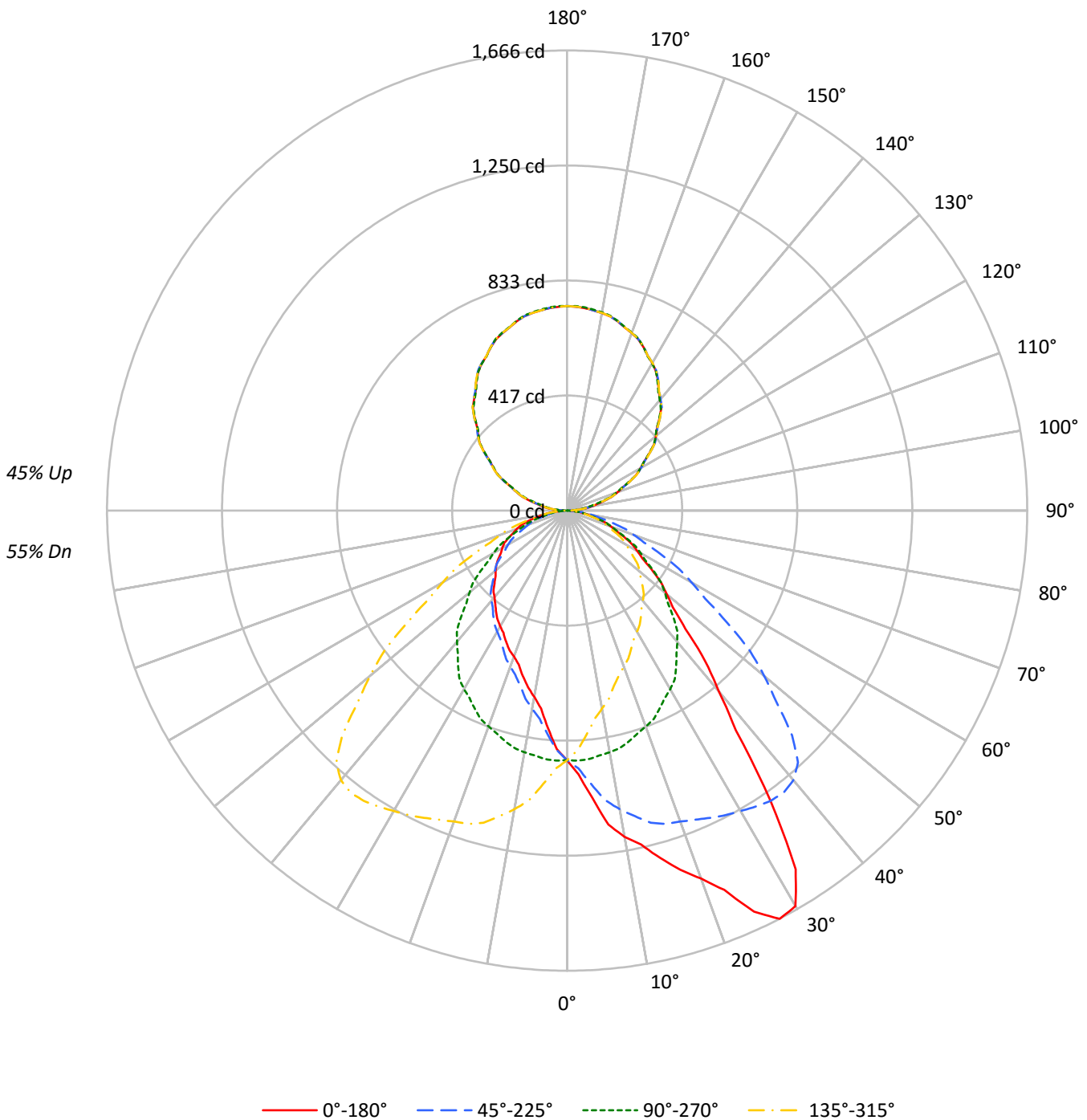
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

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	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	35	31	29	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	25	31	26	23	26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5837	5837	5837	5837
5°	6760	5857	5128	5857
10°	7864	5827	4494	5827
15°	8705	5784	4145	5784
20°	9745	5716	3865	5716
25°	11416	5640	3729	5640
30°	12331	5565	3610	5565
35°	10138	5423	3533	5423
40°	7206	5227	3447	5227
45°	5536	4961	3399	4961
50°	4725	4633	3392	4633
55°	4208	4310	3422	4310
60°	3796	3959	3509	3959
65°	3506	3605	3599	3605
70°	3186	3238	3652	3238
75°	2815	2852	3618	2852
80°	2369	2325	3310	2325
85°	1875	1675	2675	1675



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.9
10°-20°	259.1	5.6
20°-30°	420.7	9.1
30°-40°	513.1	11.1
40°-50°	466.8	10.1
50°-60°	371.8	8.1
60°-70°	259.0	5.6
70°-80°	138.1	3.0
80°-90°	36.5	0.8
90°-100°	49.6	1.1
100°-110°	146.4	3.2
110°-120°	248.0	5.4
120°-130°	326.4	7.1
130°-140°	365.7	7.9
140°-150°	358.4	7.8
150°-160°	301.1	6.5
160°-170°	200.1	4.3
170°-180°	70.0	1.5
0°-30°	766.7	16.6
0°-40°	1279.9	27.7
0°-60°	2118.5	45.9
0°-90°	2552.0	55.3
90°-120°	444.0	9.6
90°-150°	1494.5	32.4
90°-180°	2066.0	44.7
0°-180°	4617.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1043	903	791	903	1043	105
15°	1302	865	620	865	1302	373
25°	1602	791	523	791	1602	732
35°	1286	688	448	688	1286	787
45°	606	543	372	543	606	485
55°	374	383	304	383	374	337
65°	229	236	236	236	229	228
75°	113	114	145	114	113	121
85°	25	23	36	23	25	30
90°	14	1	14	1	14	9
95°	50	38	50	38	50	50
105°	143	131	143	131	143	151
115°	251	248	251	248	251	248
125°	365	362	365	362	365	326
135°	473	471	473	471	473	365
145°	573	571	573	571	573	358
155°	653	653	653	653	653	301
165°	709	710	709	710	709	200
175°	736	738	736	738	736	70
180°	740	740	740	740	740	



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	956.0	954.7	953.5	951.1	952.9	947.7	945.2	941.0	935.7	933.9	931.7
5°	1042.7	1044.6	1046.5	1038.4	1039.3	1033.9	1021.6	1011.6	1003.6	993.2	985.9
7.5°	1147.0	1142.5	1142.2	1136.9	1127.9	1120.7	1107.8	1091.4	1075.5	1057.4	1042.5
10°	1199.2	1199.6	1196.2	1190.0	1180.4	1173.5	1156.6	1140.5	1121.0	1097.9	1081.5
12.5°	1238.5	1240.1	1235.8	1227.5	1222.7	1207.3	1194.1	1174.9	1151.7	1133.3	1108.1
15°	1302.0	1297.8	1294.7	1284.3	1276.3	1260.2	1239.1	1219.1	1193.9	1170.4	1147.0
17.5°	1363.2	1366.7	1360.9	1351.4	1326.5	1307.6	1279.3	1252.0	1220.4	1189.1	1161.1
20°	1417.9	1421.0	1412.1	1395.6	1365.7	1346.9	1309.7	1274.3	1238.0	1197.7	1167.0
22.5°	1486.0	1483.6	1471.7	1446.5	1420.7	1385.8	1345.6	1302.6	1257.0	1211.4	1170.6
25°	1602.0	1585.9	1578.6	1547.5	1513.4	1462.4	1407.1	1344.2	1287.5	1227.2	1175.1
27.5°	1666.3	1661.2	1653.1	1631.4	1595.6	1541.1	1475.9	1399.3	1319.1	1243.1	1174.8
30°	1653.5	1654.2	1655.0	1648.0	1625.1	1584.0	1519.1	1436.6	1341.5	1256.0	1177.0
32.5°	1539.2	1553.2	1566.6	1582.4	1588.8	1580.9	1540.3	1465.8	1368.0	1270.7	1175.7
35°	1285.9	1290.1	1333.5	1376.4	1434.7	1480.1	1510.4	1477.3	1394.8	1283.2	1174.3
37.5°	1002.6	1023.4	1053.4	1102.0	1186.1	1261.4	1358.4	1402.9	1376.2	1287.3	1171.5
40°	854.7	873.9	893.4	942.9	1013.9	1105.2	1215.3	1309.3	1331.2	1274.3	1162.4
42.5°	740.5	755.8	777.5	814.7	873.9	954.8	1060.1	1182.9	1258.4	1237.0	1143.1
45°	606.1	615.7	632.6	662.2	705.1	768.4	861.2	995.5	1112.5	1151.2	1097.1
47.5°	518.8	518.8	531.9	552.3	583.3	637.0	705.7	810.9	935.8	1028.3	1024.0
50°	470.3	468.4	478.8	496.4	521.0	556.6	622.3	706.3	826.4	931.1	960.2
52.5°	428.6	428.8	435.2	448.2	468.8	499.3	548.3	624.0	726.6	834.0	889.0
55°	373.7	372.1	379.4	388.2	403.2	423.1	458.5	516.3	599.6	705.5	776.8
57.5°	323.4	327.5	330.4	336.6	349.0	362.3	392.1	434.6	500.7	591.6	667.0
60°	293.9	298.1	300.3	306.5	316.5	328.0	351.0	385.6	441.2	519.5	594.2
62.5°	267.4	270.7	271.6	277.0	285.2	296.4	314.5	343.5	387.5	455.9	529.2
65°	229.4	229.4	231.0	236.7	240.5	250.5	264.3	285.4	320.7	374.1	436.6
67.5°	192.7	194.6	194.2	196.7	200.3	208.0	217.9	235.3	261.5	300.3	350.4
70°	168.7	170.4	170.0	171.9	175.7	180.7	188.7	205.2	224.0	257.4	300.3
72.5°	147.3	147.9	146.9	149.5	151.8	156.1	165.1	173.9	191.5	219.6	255.0
75°	112.8	113.5	114.3	115.8	118.2	120.5	125.0	133.9	145.4	166.5	189.1
77.5°	84.5	83.1	84.9	84.7	86.0	87.8	91.8	96.5	105.9	119.3	136.8
80°	63.7	64.0	64.0	64.4	66.3	67.6	71.0	74.4	81.7	91.7	103.9
82.5°	46.5	47.5	46.9	47.6	49.2	50.0	51.9	54.7	59.0	66.9	75.7
85°	25.3	23.4	24.1	24.9	24.9	25.3	26.9	28.0	30.3	33.3	36.9
87.5°	10.1	10.7	10.9	10.8	11.0	10.9	12.0	11.9	12.7	13.5	14.5
90°	13.8	13.4	13.0	12.7	12.3	11.8	11.1	10.5	9.9	9.2	8.3
92.5°	27.2	26.9	26.7	26.4	26.1	25.5	24.6	23.8	22.9	22.1	21.0
95°	49.6	49.3	49.1	48.8	48.5	48.0	47.1	46.2	45.2	44.3	43.1
97.5°	75.1	74.9	74.8	74.6	74.5	74.0	73.2	72.3	71.5	70.6	68.9
100°	94.5	94.2	94.0	93.7	93.4	92.7	91.6	90.5	89.3	88.2	86.4
102.5°	113.8	113.5	113.1	112.8	112.4	111.6	110.4	109.1	107.9	106.5	105.7
105°	142.9	142.5	142.1	141.7	141.4	140.8	140.0	139.3	138.5	137.6	136.9
107.5°	172.6	172.6	172.7	172.7	172.7	172.5	172.2	171.8	171.4	171.0	170.4
110°	194.7	194.8	195.0	195.1	195.2	195.1	194.7	194.3	194.0	193.6	193.2



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	216.4	216.6	216.8	217.1	217.3	217.3	217.1	217.0	216.8	216.6	216.1
115°	250.6	250.7	250.9	251.0	251.2	251.3	251.4	251.5	251.7	251.8	251.5
117.5°	284.0	284.6	285.1	285.6	286.1	286.3	286.2	286.1	286.0	285.9	285.6
120°	307.1	307.6	308.1	308.6	309.1	309.3	309.3	309.3	309.3	309.3	309.2
122.5°	330.1	330.5	330.9	331.3	331.7	332.0	332.1	332.2	332.3	332.4	332.0
125°	364.7	364.8	365.0	365.1	365.2	365.4	365.7	365.9	366.2	366.4	366.3
127.5°	397.9	398.1	398.4	398.6	398.9	399.1	399.2	399.3	399.5	399.6	399.4
130°	420.0	420.2	420.5	420.7	421.0	421.2	421.3	421.4	421.6	421.7	421.4
132.5°	440.7	441.1	441.4	441.8	442.1	442.4	442.5	442.6	442.8	442.9	442.9
135°	473.0	473.5	474.0	474.5	475.0	475.2	475.2	475.2	475.2	475.2	475.1
137.5°	504.5	505.2	505.8	506.4	507.2	507.4	507.2	507.1	506.9	506.8	506.4
140°	524.8	525.4	526.1	526.7	527.4	527.6	527.4	527.0	526.8	526.5	526.1
142.5°	544.2	544.8	545.4	546.1	546.7	546.9	546.8	546.6	546.5	546.3	545.9
145°	573.2	573.6	574.0	574.4	574.7	574.9	574.9	574.9	574.9	574.9	574.6
147.5°	598.0	598.8	599.8	600.6	601.5	601.8	601.5	601.2	600.9	600.6	600.3
150°	616.4	616.7	616.9	617.2	617.4	617.5	617.5	617.5	617.5	617.5	617.0
152.5°	631.7	632.1	632.6	633.0	633.5	633.6	633.3	633.0	632.7	632.4	632.1
155°	653.3	653.9	654.6	655.2	655.9	655.9	655.4	654.9	654.4	653.9	653.8
157.5°	671.4	672.3	673.1	673.9	674.8	674.9	674.4	673.9	673.4	672.9	672.8
160°	683.9	684.5	685.1	685.8	686.4	686.4	685.9	685.4	684.9	684.4	684.3
162.5°	694.4	695.2	695.9	696.7	697.4	697.5	696.8	696.2	695.6	695.0	695.0
165°	708.6	709.3	710.1	710.9	711.7	711.9	711.2	710.7	710.2	709.7	709.6
167.5°	719.9	720.6	721.4	722.3	723.1	723.1	722.4	721.5	720.7	720.0	720.0
170°	725.9	726.8	727.7	728.6	729.4	729.5	728.7	728.0	727.2	726.5	726.5
172.5°	730.9	731.7	732.6	733.4	734.2	734.2	733.4	732.7	731.8	731.0	731.0
175°	735.7	736.6	737.5	738.4	739.2	739.3	738.5	737.8	737.0	736.3	736.3
177.5°	738.4	739.1	739.9	740.6	741.3	741.3	740.7	740.1	739.5	738.9	739.0
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	929.9	927.8	925.3	921.0	915.7	913.0	908.8	905.9	900.4	895.9	890.9
5°	977.0	967.1	958.0	946.0	933.0	924.5	914.5	903.4	891.9	880.0	867.0
7.5°	1025.9	1008.4	989.2	968.5	948.4	929.8	912.0	894.6	878.4	858.7	842.0
10°	1058.8	1036.5	1012.8	984.7	957.6	933.7	909.6	888.5	867.0	843.9	823.6
12.5°	1091.7	1062.0	1028.4	997.6	964.9	936.2	907.8	880.8	853.8	828.3	804.7
15°	1114.8	1088.7	1057.6	1013.9	977.0	937.6	900.0	865.1	832.4	804.1	774.2
17.5°	1130.0	1096.5	1063.1	1021.2	972.9	928.7	886.1	846.2	809.4	773.4	744.6
20°	1132.9	1098.3	1063.4	1022.4	972.9	922.2	879.7	831.7	792.1	755.0	719.6
22.5°	1132.0	1092.8	1054.8	1012.5	964.3	917.7	866.2	817.3	774.4	737.8	700.9
25°	1123.3	1081.5	1033.9	991.3	943.7	894.2	842.0	791.4	747.7	705.9	669.4
27.5°	1116.0	1061.8	1007.9	958.3	912.3	867.0	817.1	765.2	716.7	674.3	640.0
30°	1107.1	1047.6	987.0	935.2	888.1	843.9	796.8	746.2	695.5	654.1	617.2
32.5°	1099.1	1029.9	965.9	909.5	859.6	816.7	773.2	725.0	675.3	633.2	596.4
35°	1083.8	1003.6	930.3	866.6	813.2	769.2	732.8	687.8	642.2	601.5	566.2
37.5°	1064.2	969.1	890.4	823.6	765.2	718.7	684.8	650.4	606.5	567.3	535.4
40°	1048.8	944.5	861.2	792.9	732.4	684.0	652.6	620.0	583.5	547.0	513.3
42.5°	1029.5	922.4	831.7	758.3	698.3	651.2	618.1	590.5	558.4	524.3	493.0
45°	994.0	882.3	784.2	705.1	644.5	598.0	563.9	543.2	519.1	486.9	460.4
47.5°	941.7	834.2	732.7	651.1	588.5	545.5	513.5	493.6	476.7	452.7	428.7
50°	895.3	798.3	695.5	614.6	552.0	508.7	479.2	461.1	446.6	428.1	407.8
52.5°	843.5	753.2	659.0	579.0	517.1	474.3	445.4	429.5	417.4	404.1	384.2
55°	761.1	684.4	596.9	521.0	463.8	422.0	396.7	382.8	372.8	362.9	350.6
57.5°	670.3	610.4	532.8	463.4	410.8	372.7	349.1	335.7	327.9	322.8	315.6
60°	606.5	555.1	488.4	425.1	373.7	339.9	316.9	306.5	300.0	295.8	290.4
62.5°	547.2	505.0	443.2	385.5	340.5	308.6	288.0	278.0	271.8	269.7	265.2
65°	460.0	427.4	376.4	328.4	290.0	262.8	245.5	235.9	232.1	229.7	230.1
67.5°	374.0	354.1	313.2	272.3	241.6	218.7	204.9	197.5	195.6	192.6	192.5
70°	321.4	306.5	272.0	236.3	209.0	191.5	179.2	171.5	169.6	168.0	167.6
72.5°	275.1	262.1	232.1	203.5	179.0	163.5	153.4	148.8	145.6	144.7	144.6
75°	206.8	199.4	175.7	153.1	136.2	125.4	118.6	114.3	112.0	111.6	112.0
77.5°	147.0	140.7	125.5	109.5	98.9	90.7	84.8	83.4	80.8	80.9	80.5
80°	110.5	106.2	96.6	84.0	75.2	68.3	65.2	62.5	61.8	60.6	61.8
82.5°	80.1	75.5	69.1	61.0	53.7	49.6	46.5	45.6	45.1	44.6	44.8
85°	39.5	39.9	36.1	29.9	26.9	24.5	22.6	22.6	22.2	21.9	22.2
87.5°	14.9	14.2	12.8	11.7	9.9	8.8	8.3	8.4	7.7	7.6	8.1
90°	7.5	6.6	5.7	4.6	3.6	2.6	1.6	0.6	1.6	2.6	3.6
92.5°	19.9	18.8	17.7	16.8	16.1	15.3	14.6	13.9	14.6	15.3	16.1
95°	41.8	40.5	39.3	38.5	38.2	38.0	37.7	37.5	37.7	38.0	38.2
97.5°	67.1	65.3	63.5	62.6	62.5	62.4	62.3	62.2	62.3	62.4	62.5
100°	84.8	83.1	81.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
102.5°	104.9	104.0	103.2	102.5	102.0	101.5	101.0	100.5	101.0	101.5	102.0
105°	136.1	135.4	134.6	133.9	133.3	132.6	132.0	131.4	132.0	132.6	133.3
107.5°	169.8	169.3	168.6	168.0	167.3	166.7	166.1	165.4	166.1	166.7	167.3
110°	192.8	192.4	192.1	191.6	190.9	190.3	189.6	188.9	189.6	190.3	190.9



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	215.6	215.2	214.7	214.3	213.9	213.6	213.3	212.9	213.3	213.6	213.9
115°	251.3	251.0	250.7	250.3	249.8	249.3	248.8	248.3	248.8	249.3	249.8
117.5°	285.4	285.2	285.0	284.7	284.5	284.3	284.0	283.8	284.0	284.3	284.5
120°	309.1	309.0	308.8	308.5	307.8	307.2	306.6	305.9	306.6	307.2	307.8
122.5°	331.7	331.4	331.0	330.8	330.5	330.3	330.1	329.9	330.1	330.3	330.5
125°	366.2	366.0	365.9	365.5	364.7	363.9	363.1	362.3	363.1	363.9	364.7
127.5°	399.3	399.1	399.0	398.7	398.2	397.8	397.4	397.0	397.4	397.8	398.2
130°	421.2	420.9	420.7	420.2	419.6	419.0	418.3	417.7	418.3	419.0	419.6
132.5°	443.0	443.0	443.1	442.6	441.5	440.5	439.5	438.4	439.5	440.5	441.5
135°	475.0	474.9	474.7	474.3	473.5	472.8	472.0	471.2	472.0	472.8	473.5
137.5°	506.1	505.9	505.6	505.1	504.3	503.6	502.9	502.1	502.9	503.6	504.3
140°	525.8	525.4	525.0	524.5	523.8	523.2	522.6	521.9	522.6	523.2	523.8
142.5°	545.4	544.9	544.4	543.9	543.4	542.8	542.3	541.8	542.3	542.8	543.4
145°	574.2	573.8	573.4	573.0	572.5	572.0	571.4	570.9	571.4	572.0	572.5
147.5°	600.0	599.6	599.3	599.1	598.7	598.4	598.1	597.8	598.1	598.4	598.7
150°	616.5	616.0	615.5	615.3	615.5	615.6	615.7	615.8	615.7	615.6	615.5
152.5°	631.9	631.7	631.5	631.3	631.2	631.0	630.8	630.6	630.8	631.0	631.2
155°	653.6	653.5	653.4	653.3	653.3	653.3	653.3	653.3	653.3	653.3	653.3
157.5°	672.7	672.5	672.4	672.5	672.8	673.0	673.3	673.6	673.3	673.0	672.8
160°	684.2	684.0	683.9	684.0	684.4	684.8	685.2	685.6	685.2	684.8	684.4
162.5°	695.0	694.9	694.9	695.0	695.3	695.6	695.9	696.2	695.9	695.6	695.3
165°	709.5	709.3	709.2	709.3	709.5	709.8	710.0	710.3	710.0	709.8	709.5
167.5°	720.0	720.0	720.0	720.2	720.7	721.2	721.9	722.4	721.9	721.2	720.7
170°	726.5	726.5	726.5	726.7	727.2	727.7	728.2	728.7	728.2	727.7	727.2
172.5°	731.0	731.0	731.0	731.3	731.8	732.4	732.9	733.4	732.9	732.4	731.8
175°	736.3	736.3	736.3	736.5	737.0	737.5	738.0	738.5	738.0	737.5	737.0
177.5°	739.1	739.2	739.3	739.5	740.0	740.4	740.8	741.2	740.8	740.4	740.0
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	888.2	884.7	882.0	875.9	872.5	867.9	864.2	868.2	863.9	865.8	863.0
5°	860.5	849.7	842.0	830.9	821.3	812.5	806.0	804.9	801.7	800.2	795.7
7.5°	827.2	813.7	800.5	786.0	773.7	761.2	753.2	746.6	742.3	736.5	732.6
10°	807.5	789.5	774.2	756.5	741.1	727.7	717.0	711.7	706.6	699.3	696.7
12.5°	783.3	764.7	745.9	727.0	712.4	697.3	688.1	680.0	676.6	668.3	667.5
15°	754.2	726.2	707.8	688.6	668.2	656.0	648.3	639.5	635.7	630.0	625.7
17.5°	719.5	694.5	671.5	651.7	634.2	623.9	614.3	608.2	601.7	597.9	591.0
20°	694.4	670.6	647.5	626.4	613.0	601.2	593.5	587.7	580.8	578.9	572.0
22.5°	673.2	646.9	624.8	607.1	592.5	579.1	570.8	566.8	562.1	556.1	554.8
25°	638.7	611.5	592.7	575.0	562.0	549.8	544.0	539.0	534.4	530.2	528.7
27.5°	608.9	584.6	562.3	546.3	535.0	523.8	518.8	512.7	509.3	505.9	501.8
30°	588.1	563.2	543.6	528.3	515.9	506.0	500.6	496.4	493.3	490.3	488.0
32.5°	566.6	543.5	524.5	509.6	497.3	489.8	484.9	482.0	478.6	474.9	472.0
35°	538.3	512.9	494.5	481.4	471.8	466.1	460.7	458.1	454.2	454.2	451.1
37.5°	506.2	484.3	468.1	456.2	447.6	442.4	436.7	434.8	432.3	430.7	429.7
40°	487.2	466.9	451.5	439.6	430.4	426.2	421.6	418.5	417.0	415.1	414.3
42.5°	467.6	448.2	433.4	422.4	414.4	410.8	406.6	404.5	401.3	398.8	398.4
45°	437.7	418.9	405.5	396.7	389.8	385.6	382.8	378.3	376.7	373.7	373.2
47.5°	409.4	391.3	378.2	370.9	364.9	361.4	357.2	352.6	350.8	349.3	349.2
50°	388.2	371.7	359.4	352.5	346.8	341.8	337.6	334.6	333.4	333.4	334.2
52.5°	366.8	352.7	342.2	333.9	328.4	323.1	319.2	317.3	315.6	317.4	318.8
55°	335.3	321.1	313.5	305.4	300.0	293.9	292.0	291.1	290.0	293.1	294.6
57.5°	301.9	292.1	283.1	275.1	270.2	266.7	264.1	263.7	265.8	267.2	272.3
60°	280.8	269.3	261.3	255.1	249.3	247.0	246.3	245.5	247.0	251.3	257.8
62.5°	257.5	248.1	239.4	234.9	230.7	226.8	226.6	227.1	230.1	235.0	241.6
65°	223.3	215.2	209.4	204.1	200.7	198.3	199.1	200.7	204.1	210.7	217.9
67.5°	188.5	183.0	177.8	173.5	170.2	170.2	171.0	173.3	177.3	184.8	191.5
70°	166.1	160.0	155.7	153.8	151.2	149.7	151.9	155.7	159.2	166.1	171.9
72.5°	143.7	138.5	135.2	133.9	132.7	131.5	132.3	136.4	141.1	148.0	154.7
75°	110.5	108.6	106.2	104.7	103.6	104.3	105.1	109.0	112.8	120.1	127.7
77.5°	80.7	78.7	77.3	76.9	76.2	76.6	78.8	81.6	85.4	90.7	96.5
80°	61.0	60.2	59.5	59.1	59.1	59.5	62.5	64.4	67.9	72.9	77.5
82.5°	44.4	43.9	43.8	43.7	44.0	44.1	45.9	48.5	51.3	55.1	59.1
85°	23.4	22.6	23.8	24.1	23.4	24.5	25.3	26.9	28.0	29.9	31.8
87.5°	8.6	9.4	9.3	9.8	10.0	10.7	10.6	11.9	12.6	13.4	13.2
90°	4.6	5.7	6.6	7.5	8.3	9.2	9.9	10.5	11.1	11.8	12.3
92.5°	16.8	17.7	18.8	19.9	21.0	22.1	22.9	23.8	24.6	25.5	26.1
95°	38.5	39.3	40.5	41.8	43.1	44.3	45.2	46.2	47.1	48.0	48.5
97.5°	62.6	63.5	65.3	67.1	68.9	70.6	71.5	72.3	73.2	74.0	74.5
100°	80.7	81.5	83.1	84.8	86.4	88.2	89.3	90.5	91.6	92.7	93.4
102.5°	102.5	103.2	104.0	104.9	105.7	106.5	107.9	109.1	110.4	111.6	112.4
105°	133.9	134.6	135.4	136.1	136.9	137.6	138.5	139.3	140.0	140.8	141.4
107.5°	168.0	168.6	169.3	169.8	170.4	171.0	171.4	171.8	172.2	172.5	172.7
110°	191.6	192.1	192.4	192.8	193.2	193.6	194.0	194.3	194.7	195.1	195.2



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	214.3	214.7	215.2	215.6	216.1	216.6	216.8	217.0	217.1	217.3	217.3
115°	250.3	250.7	251.0	251.3	251.5	251.8	251.7	251.5	251.4	251.3	251.2
117.5°	284.7	285.0	285.2	285.4	285.6	285.9	286.0	286.1	286.2	286.3	286.1
120°	308.5	308.8	309.0	309.1	309.2	309.3	309.3	309.3	309.3	309.3	309.1
122.5°	330.8	331.0	331.4	331.7	332.0	332.4	332.3	332.2	332.1	332.0	331.7
125°	365.5	365.9	366.0	366.2	366.3	366.4	366.2	365.9	365.7	365.4	365.2
127.5°	398.7	399.0	399.1	399.3	399.4	399.6	399.5	399.3	399.2	399.1	398.9
130°	420.2	420.7	420.9	421.2	421.4	421.7	421.6	421.4	421.3	421.2	421.0
132.5°	442.6	443.1	443.0	443.0	442.9	442.9	442.8	442.6	442.5	442.4	442.1
135°	474.3	474.7	474.9	475.0	475.1	475.2	475.2	475.2	475.2	475.2	475.0
137.5°	505.1	505.6	505.9	506.1	506.4	506.8	506.9	507.1	507.2	507.4	507.2
140°	524.5	525.0	525.4	525.8	526.1	526.5	526.8	527.0	527.4	527.6	527.4
142.5°	543.9	544.4	544.9	545.4	545.9	546.3	546.5	546.6	546.8	546.9	546.7
145°	573.0	573.4	573.8	574.2	574.6	574.9	574.9	574.9	574.9	574.9	574.7
147.5°	599.1	599.3	599.6	600.0	600.3	600.6	600.9	601.2	601.5	601.8	601.5
150°	615.3	615.5	616.0	616.5	617.0	617.5	617.5	617.5	617.5	617.5	617.4
152.5°	631.3	631.5	631.7	631.9	632.1	632.4	632.7	633.0	633.3	633.6	633.5
155°	653.3	653.4	653.5	653.6	653.8	653.9	654.4	654.9	655.4	655.9	655.9
157.5°	672.5	672.4	672.5	672.7	672.8	672.9	673.4	673.9	674.4	674.9	674.8
160°	684.0	683.9	684.0	684.2	684.3	684.4	684.9	685.4	685.9	686.4	686.4
162.5°	695.0	694.9	694.9	695.0	695.0	695.0	695.6	696.2	696.8	697.5	697.4
165°	709.3	709.2	709.3	709.5	709.6	709.7	710.2	710.7	711.2	711.9	711.7
167.5°	720.2	720.0	720.0	720.0	720.0	720.0	720.7	721.5	722.4	723.1	723.1
170°	726.7	726.5	726.5	726.5	726.5	726.5	727.2	728.0	728.7	729.5	729.4
172.5°	731.3	731.0	731.0	731.0	731.0	731.0	731.8	732.7	733.4	734.2	734.2
175°	736.5	736.3	736.3	736.3	736.3	736.3	737.0	737.8	738.5	739.3	739.2
177.5°	739.5	739.3	739.2	739.1	739.0	738.9	739.5	740.1	740.7	741.3	741.3
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	861.1	863.3	861.5	863.9	861.5	863.3	861.1	863.0	865.8	863.9	868.2
5°	793.8	790.2	792.5	791.0	792.5	790.2	793.8	795.7	800.2	801.7	804.9
7.5°	731.4	728.1	724.4	722.6	724.4	728.1	731.4	732.6	736.5	742.3	746.6
10°	692.5	688.2	687.8	685.2	687.8	688.2	692.5	696.7	699.3	706.6	711.7
12.5°	663.9	659.9	655.6	654.5	655.6	659.9	663.9	667.5	668.3	676.6	680.0
15°	623.4	620.4	617.6	620.0	617.6	620.4	623.4	625.7	630.0	635.7	639.5
17.5°	589.7	587.1	586.7	583.9	586.7	587.1	589.7	591.0	597.9	601.7	608.2
20°	568.6	566.6	567.3	562.4	567.3	566.6	568.6	572.0	578.9	580.8	587.7
22.5°	551.7	547.9	547.4	546.4	547.4	547.9	551.7	554.8	556.1	562.1	566.8
25°	525.2	523.3	521.4	523.3	521.4	523.3	525.2	528.7	530.2	534.4	539.0
27.5°	502.1	499.8	499.3	499.5	499.3	499.8	502.1	501.8	505.9	509.3	512.7
30°	488.0	484.1	484.5	484.1	484.5	484.1	488.0	488.0	490.3	493.3	496.4
32.5°	472.6	470.0	469.5	468.8	469.5	470.0	472.6	472.0	474.9	478.6	482.0
35°	450.0	450.0	448.1	448.1	448.1	450.0	450.0	451.1	454.2	454.2	458.1
37.5°	428.7	428.4	427.2	427.4	427.2	428.4	428.7	429.7	430.7	432.3	434.8
40°	412.7	412.4	411.2	408.9	411.2	412.4	412.7	414.3	415.1	417.0	418.5
42.5°	397.5	396.2	395.6	394.9	395.6	396.2	397.5	398.4	398.8	401.3	404.5
45°	373.2	373.2	372.5	372.1	372.5	373.2	373.2	373.2	373.7	376.7	378.3
47.5°	349.8	350.5	351.9	351.7	351.9	350.5	349.8	349.2	349.3	350.8	352.6
50°	335.7	336.1	337.2	337.6	337.2	336.1	335.7	334.2	333.4	333.4	334.6
52.5°	320.0	322.2	323.7	323.5	323.7	322.2	320.0	318.8	317.4	315.6	317.3
55°	298.1	300.7	303.5	303.9	303.5	300.7	298.1	294.6	293.1	290.0	291.1
57.5°	276.4	280.1	283.0	283.9	283.0	280.1	276.4	272.3	267.2	265.8	263.7
60°	261.7	266.6	270.0	271.7	270.0	266.6	261.7	257.8	251.3	247.0	245.5
62.5°	247.5	253.1	256.6	256.9	256.6	253.1	247.5	241.6	235.0	230.1	227.1
65°	224.4	230.1	233.3	235.5	233.3	230.1	224.4	217.9	210.7	204.1	200.7
67.5°	199.5	205.3	208.7	210.6	208.7	205.3	199.5	191.5	184.8	177.3	173.3
70°	181.5	187.2	191.8	193.4	191.8	187.2	181.5	171.9	166.1	159.2	155.7
72.5°	163.7	168.7	172.5	174.3	172.5	168.7	163.7	154.7	148.0	141.1	136.4
75°	132.7	139.7	143.1	145.0	143.1	139.7	132.7	127.7	120.1	112.8	109.0
77.5°	102.4	108.7	110.7	111.7	110.7	108.7	102.4	96.5	90.7	85.4	81.6
80°	82.1	85.9	88.7	89.0	88.7	85.9	82.1	77.5	72.9	67.9	64.4
82.5°	63.1	66.2	67.2	68.2	67.2	66.2	63.1	59.1	55.1	51.3	48.5
85°	34.5	36.1	36.5	36.1	36.5	36.1	34.5	31.8	29.9	28.0	26.9
87.5°	13.9	13.6	13.7	14.4	13.7	13.6	13.9	13.2	13.4	12.6	11.9
90°	12.7	13.0	13.4	13.8	13.4	13.0	12.7	12.3	11.8	11.1	10.5
92.5°	26.4	26.7	26.9	27.2	26.9	26.7	26.4	26.1	25.5	24.6	23.8
95°	48.8	49.1	49.3	49.6	49.3	49.1	48.8	48.5	48.0	47.1	46.2
97.5°	74.6	74.8	74.9	75.1	74.9	74.8	74.6	74.5	74.0	73.2	72.3
100°	93.7	94.0	94.2	94.5	94.2	94.0	93.7	93.4	92.7	91.6	90.5
102.5°	112.8	113.1	113.5	113.8	113.5	113.1	112.8	112.4	111.6	110.4	109.1
105°	141.7	142.1	142.5	142.9	142.5	142.1	141.7	141.4	140.8	140.0	139.3
107.5°	172.7	172.7	172.6	172.6	172.6	172.7	172.7	172.7	172.5	172.2	171.8
110°	195.1	195.0	194.8	194.7	194.8	195.0	195.1	195.2	195.1	194.7	194.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	217.1	216.8	216.6	216.4	216.6	216.8	217.1	217.3	217.3	217.1	217.0
115°	251.0	250.9	250.7	250.6	250.7	250.9	251.0	251.2	251.3	251.4	251.5
117.5°	285.6	285.1	284.6	284.0	284.6	285.1	285.6	286.1	286.3	286.2	286.1
120°	308.6	308.1	307.6	307.1	307.6	308.1	308.6	309.1	309.3	309.3	309.3
122.5°	331.3	330.9	330.5	330.1	330.5	330.9	331.3	331.7	332.0	332.1	332.2
125°	365.1	365.0	364.8	364.7	364.8	365.0	365.1	365.2	365.4	365.7	365.9
127.5°	398.6	398.4	398.1	397.9	398.1	398.4	398.6	398.9	399.1	399.2	399.3
130°	420.7	420.5	420.2	420.0	420.2	420.5	420.7	421.0	421.2	421.3	421.4
132.5°	441.8	441.4	441.1	440.7	441.1	441.4	441.8	442.1	442.4	442.5	442.6
135°	474.5	474.0	473.5	473.0	473.5	474.0	474.5	475.0	475.2	475.2	475.2
137.5°	506.4	505.8	505.2	504.5	505.2	505.8	506.4	507.2	507.4	507.2	507.1
140°	526.7	526.1	525.4	524.8	525.4	526.1	526.7	527.4	527.6	527.4	527.0
142.5°	546.1	545.4	544.8	544.2	544.8	545.4	546.1	546.7	546.9	546.8	546.6
145°	574.4	574.0	573.6	573.2	573.6	574.0	574.4	574.7	574.9	574.9	574.9
147.5°	600.6	599.8	598.8	598.0	598.8	599.8	600.6	601.5	601.8	601.5	601.2
150°	617.2	616.9	616.7	616.4	616.7	616.9	617.2	617.4	617.5	617.5	617.5
152.5°	633.0	632.6	632.1	631.7	632.1	632.6	633.0	633.5	633.6	633.3	633.0
155°	655.2	654.6	653.9	653.3	653.9	654.6	655.2	655.9	655.9	655.4	654.9
157.5°	673.9	673.1	672.3	671.4	672.3	673.1	673.9	674.8	674.9	674.4	673.9
160°	685.8	685.1	684.5	683.9	684.5	685.1	685.8	686.4	686.4	685.9	685.4
162.5°	696.7	695.9	695.2	694.4	695.2	695.9	696.7	697.4	697.5	696.8	696.2
165°	710.9	710.1	709.3	708.6	709.3	710.1	710.9	711.7	711.9	711.2	710.7
167.5°	722.3	721.4	720.6	719.9	720.6	721.4	722.3	723.1	723.1	722.4	721.5
170°	728.6	727.7	726.8	725.9	726.8	727.7	728.6	729.4	729.5	728.7	728.0
172.5°	733.4	732.6	731.7	730.9	731.7	732.6	733.4	734.2	734.2	733.4	732.7
175°	738.4	737.5	736.6	735.7	736.6	737.5	738.4	739.2	739.3	738.5	737.8
177.5°	740.6	739.9	739.1	738.4	739.1	739.9	740.6	741.3	741.3	740.7	740.1
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	864.2	867.9	872.5	875.9	882.0	884.7	888.2	890.9	895.9	900.4	905.9
5°	806.0	812.5	821.3	830.9	842.0	849.7	860.5	867.0	880.0	891.9	903.4
7.5°	753.2	761.2	773.7	786.0	800.5	813.7	827.2	842.0	858.7	878.4	894.6
10°	717.0	727.7	741.1	756.5	774.2	789.5	807.5	823.6	843.9	867.0	888.5
12.5°	688.1	697.3	712.4	727.0	745.9	764.7	783.3	804.7	828.3	853.8	880.8
15°	648.3	656.0	668.2	688.6	707.8	726.2	754.2	774.2	804.1	832.4	865.1
17.5°	614.3	623.9	634.2	651.7	671.5	694.5	719.5	744.6	773.4	809.4	846.2
20°	593.5	601.2	613.0	626.4	647.5	670.6	694.4	719.6	755.0	792.1	831.7
22.5°	570.8	579.1	592.5	607.1	624.8	646.9	673.2	700.9	737.8	774.4	817.3
25°	544.0	549.8	562.0	575.0	592.7	611.5	638.7	669.4	705.9	747.7	791.4
27.5°	518.8	523.8	535.0	546.3	562.3	584.6	608.9	640.0	674.3	716.7	765.2
30°	500.6	506.0	515.9	528.3	543.6	563.2	588.1	617.2	654.1	695.5	746.2
32.5°	484.9	489.8	497.3	509.6	524.5	543.5	566.6	596.4	633.2	675.3	725.0
35°	460.7	466.1	471.8	481.4	494.5	512.9	538.3	566.2	601.5	642.2	687.8
37.5°	436.7	442.4	447.6	456.2	468.1	484.3	506.2	535.4	567.3	606.5	650.4
40°	421.6	426.2	430.4	439.6	451.5	466.9	487.2	513.3	547.0	583.5	620.0
42.5°	406.6	410.8	414.4	422.4	433.4	448.2	467.6	493.0	524.3	558.4	590.5
45°	382.8	385.6	389.8	396.7	405.5	418.9	437.7	460.4	486.9	519.1	543.2
47.5°	357.2	361.4	364.9	370.9	378.2	391.3	409.4	428.7	452.7	476.7	493.6
50°	337.6	341.8	346.8	352.5	359.4	371.7	388.2	407.8	428.1	446.6	461.1
52.5°	319.2	323.1	328.4	333.9	342.2	352.7	366.8	384.2	404.1	417.4	429.5
55°	292.0	293.9	300.0	305.4	313.5	321.1	335.3	350.6	362.9	372.8	382.8
57.5°	264.1	266.7	270.2	275.1	283.1	292.1	301.9	315.6	322.8	327.9	335.7
60°	246.3	247.0	249.3	255.1	261.3	269.3	280.8	290.4	295.8	300.0	306.5
62.5°	226.6	226.8	230.7	234.9	239.4	248.1	257.5	265.2	269.7	271.8	278.0
65°	199.1	198.3	200.7	204.1	209.4	215.2	223.3	230.1	229.7	232.1	235.9
67.5°	171.0	170.2	170.2	173.5	177.8	183.0	188.5	192.5	192.6	195.6	197.5
70°	151.9	149.7	151.2	153.8	155.7	160.0	166.1	167.6	168.0	169.6	171.5
72.5°	132.3	131.5	132.7	133.9	135.2	138.5	143.7	144.6	144.7	145.6	148.8
75°	105.1	104.3	103.6	104.7	106.2	108.6	110.5	112.0	111.6	112.0	114.3
77.5°	78.8	76.6	76.2	76.9	77.3	78.7	80.7	80.5	80.9	80.8	83.4
80°	62.5	59.5	59.1	59.1	59.5	60.2	61.0	61.8	60.6	61.8	62.5
82.5°	45.9	44.1	44.0	43.7	43.8	43.9	44.4	44.8	44.6	45.1	45.6
85°	25.3	24.5	23.4	24.1	23.8	22.6	23.4	22.2	21.9	22.2	22.6
87.5°	10.6	10.7	10.0	9.8	9.3	9.4	8.6	8.1	7.6	7.7	8.4
90°	9.9	9.2	8.3	7.5	6.6	5.7	4.6	3.6	2.6	1.6	0.6
92.5°	22.9	22.1	21.0	19.9	18.8	17.7	16.8	16.1	15.3	14.6	13.9
95°	45.2	44.3	43.1	41.8	40.5	39.3	38.5	38.2	38.0	37.7	37.5
97.5°	71.5	70.6	68.9	67.1	65.3	63.5	62.6	62.5	62.4	62.3	62.2
100°	89.3	88.2	86.4	84.8	83.1	81.5	80.7	80.7	80.7	80.7	80.7
102.5°	107.9	106.5	105.7	104.9	104.0	103.2	102.5	102.0	101.5	101.0	100.5
105°	138.5	137.6	136.9	136.1	135.4	134.6	133.9	133.3	132.6	132.0	131.4
107.5°	171.4	171.0	170.4	169.8	169.3	168.6	168.0	167.3	166.7	166.1	165.4
110°	194.0	193.6	193.2	192.8	192.4	192.1	191.6	190.9	190.3	189.6	188.9



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	216.8	216.6	216.1	215.6	215.2	214.7	214.3	213.9	213.6	213.3	212.9
115°	251.7	251.8	251.5	251.3	251.0	250.7	250.3	249.8	249.3	248.8	248.3
117.5°	286.0	285.9	285.6	285.4	285.2	285.0	284.7	284.5	284.3	284.0	283.8
120°	309.3	309.3	309.2	309.1	309.0	308.8	308.5	307.8	307.2	306.6	305.9
122.5°	332.3	332.4	332.0	331.7	331.4	331.0	330.8	330.5	330.3	330.1	329.9
125°	366.2	366.4	366.3	366.2	366.0	365.9	365.5	364.7	363.9	363.1	362.3
127.5°	399.5	399.6	399.4	399.3	399.1	399.0	398.7	398.2	397.8	397.4	397.0
130°	421.6	421.7	421.4	421.2	420.9	420.7	420.2	419.6	419.0	418.3	417.7
132.5°	442.8	442.9	442.9	443.0	443.0	443.1	442.6	441.5	440.5	439.5	438.4
135°	475.2	475.2	475.1	475.0	474.9	474.7	474.3	473.5	472.8	472.0	471.2
137.5°	506.9	506.8	506.4	506.1	505.9	505.6	505.1	504.3	503.6	502.9	502.1
140°	526.8	526.5	526.1	525.8	525.4	525.0	524.5	523.8	523.2	522.6	521.9
142.5°	546.5	546.3	545.9	545.4	544.9	544.4	543.9	543.4	542.8	542.3	541.8
145°	574.9	574.9	574.6	574.2	573.8	573.4	573.0	572.5	572.0	571.4	570.9
147.5°	600.9	600.6	600.3	600.0	599.6	599.3	599.1	598.7	598.4	598.1	597.8
150°	617.5	617.5	617.0	616.5	616.0	615.5	615.3	615.5	615.6	615.7	615.8
152.5°	632.7	632.4	632.1	631.9	631.7	631.5	631.3	631.2	631.0	630.8	630.6
155°	654.4	653.9	653.8	653.6	653.5	653.4	653.3	653.3	653.3	653.3	653.3
157.5°	673.4	672.9	672.8	672.7	672.5	672.4	672.5	672.8	673.0	673.3	673.6
160°	684.9	684.4	684.3	684.2	684.0	683.9	684.0	684.4	684.8	685.2	685.6
162.5°	695.6	695.0	695.0	695.0	694.9	694.9	695.0	695.3	695.6	695.9	696.2
165°	710.2	709.7	709.6	709.5	709.3	709.2	709.3	709.5	709.8	710.0	710.3
167.5°	720.7	720.0	720.0	720.0	720.0	720.0	720.2	720.7	721.2	721.9	722.4
170°	727.2	726.5	726.5	726.5	726.5	726.5	726.7	727.2	727.7	728.2	728.7
172.5°	731.8	731.0	731.0	731.0	731.0	731.0	731.3	731.8	732.4	732.9	733.4
175°	737.0	736.3	736.3	736.3	736.3	736.3	736.5	737.0	737.5	738.0	738.5
177.5°	739.5	738.9	739.0	739.1	739.2	739.3	739.5	740.0	740.4	740.8	741.2
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	908.8	913.0	915.7	921.0	925.3	927.8	929.9	931.7	933.9	935.7	941.0
5°	914.5	924.5	933.0	946.0	958.0	967.1	977.0	985.9	993.2	1003.6	1011.6
7.5°	912.0	929.8	948.4	968.5	989.2	1008.4	1025.9	1042.5	1057.4	1075.5	1091.4
10°	909.6	933.7	957.6	984.7	1012.8	1036.5	1058.8	1081.5	1097.9	1121.0	1140.5
12.5°	907.8	936.2	964.9	997.6	1028.4	1062.0	1091.7	1108.1	1133.3	1151.7	1174.9
15°	900.0	937.6	977.0	1013.9	1057.6	1088.7	1114.8	1147.0	1170.4	1193.9	1219.1
17.5°	886.1	928.7	972.9	1021.2	1063.1	1096.5	1130.0	1161.1	1189.1	1220.4	1252.0
20°	879.7	922.2	972.9	1022.4	1063.4	1098.3	1132.9	1167.0	1197.7	1238.0	1274.3
22.5°	866.2	917.7	964.3	1012.5	1054.8	1092.8	1132.0	1170.6	1211.4	1257.0	1302.6
25°	842.0	894.2	943.7	991.3	1033.9	1081.5	1123.3	1175.1	1227.2	1287.5	1344.2
27.5°	817.1	867.0	912.3	958.3	1007.9	1061.8	1116.0	1174.8	1243.1	1319.1	1399.3
30°	796.8	843.9	888.1	935.2	987.0	1047.6	1107.1	1177.0	1256.0	1341.5	1436.6
32.5°	773.2	816.7	859.6	909.5	965.9	1029.9	1099.1	1175.7	1270.7	1368.0	1465.8
35°	732.8	769.2	813.2	866.6	930.3	1003.6	1083.8	1174.3	1283.2	1394.8	1477.3
37.5°	684.8	718.7	765.2	823.6	890.4	969.1	1064.2	1171.5	1287.3	1376.2	1402.9
40°	652.6	684.0	732.4	792.9	861.2	944.5	1048.8	1162.4	1274.3	1331.2	1309.3
42.5°	618.1	651.2	698.3	758.3	831.7	922.4	1029.5	1143.1	1237.0	1258.4	1182.9
45°	563.9	598.0	644.5	705.1	784.2	882.3	994.0	1097.1	1151.2	1112.5	995.5
47.5°	513.5	545.5	588.5	651.1	732.7	834.2	941.7	1024.0	1028.3	935.8	810.9
50°	479.2	508.7	552.0	614.6	695.5	798.3	895.3	960.2	931.1	826.4	706.3
52.5°	445.4	474.3	517.1	579.0	659.0	753.2	843.5	889.0	834.0	726.6	624.0
55°	396.7	422.0	463.8	521.0	596.9	684.4	761.1	776.8	705.5	599.6	516.3
57.5°	349.1	372.7	410.8	463.4	532.8	610.4	670.3	667.0	591.6	500.7	434.6
60°	316.9	339.9	373.7	425.1	488.4	555.1	606.5	594.2	519.5	441.2	385.6
62.5°	288.0	308.6	340.5	385.5	443.2	505.0	547.2	529.2	455.9	387.5	343.5
65°	245.5	262.8	290.0	328.4	376.4	427.4	460.0	436.6	374.1	320.7	285.4
67.5°	204.9	218.7	241.6	272.3	313.2	354.1	374.0	350.4	300.3	261.5	235.3
70°	179.2	191.5	209.0	236.3	272.0	306.5	321.4	300.3	257.4	224.0	205.2
72.5°	153.4	163.5	179.0	203.5	232.1	262.1	275.1	255.0	219.6	191.5	173.9
75°	118.6	125.4	136.2	153.1	175.7	199.4	206.8	189.1	166.5	145.4	133.9
77.5°	84.8	90.7	98.9	109.5	125.5	140.7	147.0	136.8	119.3	105.9	96.5
80°	65.2	68.3	75.2	84.0	96.6	106.2	110.5	103.9	91.7	81.7	74.4
82.5°	46.5	49.6	53.7	61.0	69.1	75.5	80.1	75.7	66.9	59.0	54.7
85°	22.6	24.5	26.9	29.9	36.1	39.9	39.5	36.9	33.3	30.3	28.0
87.5°	8.3	8.8	9.9	11.7	12.8	14.2	14.9	14.5	13.5	12.7	11.9
90°	1.6	2.6	3.6	4.6	5.7	6.6	7.5	8.3	9.2	9.9	10.5
92.5°	14.6	15.3	16.1	16.8	17.7	18.8	19.9	21.0	22.1	22.9	23.8
95°	37.7	38.0	38.2	38.5	39.3	40.5	41.8	43.1	44.3	45.2	46.2
97.5°	62.3	62.4	62.5	62.6	63.5	65.3	67.1	68.9	70.6	71.5	72.3
100°	80.7	80.7	80.7	80.7	81.5	83.1	84.8	86.4	88.2	89.3	90.5
102.5°	101.0	101.5	102.0	102.5	103.2	104.0	104.9	105.7	106.5	107.9	109.1
105°	132.0	132.6	133.3	133.9	134.6	135.4	136.1	136.9	137.6	138.5	139.3
107.5°	166.1	166.7	167.3	168.0	168.6	169.3	169.8	170.4	171.0	171.4	171.8
110°	189.6	190.3	190.9	191.6	192.1	192.4	192.8	193.2	193.6	194.0	194.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.3	213.6	213.9	214.3	214.7	215.2	215.6	216.1	216.6	216.8	217.0
115°	248.8	249.3	249.8	250.3	250.7	251.0	251.3	251.5	251.8	251.7	251.5
117.5°	284.0	284.3	284.5	284.7	285.0	285.2	285.4	285.6	285.9	286.0	286.1
120°	306.6	307.2	307.8	308.5	308.8	309.0	309.1	309.2	309.3	309.3	309.3
122.5°	330.1	330.3	330.5	330.8	331.0	331.4	331.7	332.0	332.4	332.3	332.2
125°	363.1	363.9	364.7	365.5	365.9	366.0	366.2	366.3	366.4	366.2	365.9
127.5°	397.4	397.8	398.2	398.7	399.0	399.1	399.3	399.4	399.6	399.5	399.3
130°	418.3	419.0	419.6	420.2	420.7	420.9	421.2	421.4	421.7	421.6	421.4
132.5°	439.5	440.5	441.5	442.6	443.1	443.0	443.0	442.9	442.9	442.8	442.6
135°	472.0	472.8	473.5	474.3	474.7	474.9	475.0	475.1	475.2	475.2	475.2
137.5°	502.9	503.6	504.3	505.1	505.6	505.9	506.1	506.4	506.8	506.9	507.1
140°	522.6	523.2	523.8	524.5	525.0	525.4	525.8	526.1	526.5	526.8	527.0
142.5°	542.3	542.8	543.4	543.9	544.4	544.9	545.4	545.9	546.3	546.5	546.6
145°	571.4	572.0	572.5	573.0	573.4	573.8	574.2	574.6	574.9	574.9	574.9
147.5°	598.1	598.4	598.7	599.1	599.3	599.6	600.0	600.3	600.6	600.9	601.2
150°	615.7	615.6	615.5	615.3	615.5	616.0	616.5	617.0	617.5	617.5	617.5
152.5°	630.8	631.0	631.2	631.3	631.5	631.7	631.9	632.1	632.4	632.7	633.0
155°	653.3	653.3	653.3	653.3	653.4	653.5	653.6	653.8	653.9	654.4	654.9
157.5°	673.3	673.0	672.8	672.5	672.4	672.5	672.7	672.8	672.9	673.4	673.9
160°	685.2	684.8	684.4	684.0	683.9	684.0	684.2	684.3	684.4	684.9	685.4
162.5°	695.9	695.6	695.3	695.0	694.9	694.9	695.0	695.0	695.0	695.6	696.2
165°	710.0	709.8	709.5	709.3	709.2	709.3	709.5	709.6	709.7	710.2	710.7
167.5°	721.9	721.2	720.7	720.2	720.0	720.0	720.0	720.0	720.0	720.7	721.5
170°	728.2	727.7	727.2	726.7	726.5	726.5	726.5	726.5	726.5	727.2	728.0
172.5°	732.9	732.4	731.8	731.3	731.0	731.0	731.0	731.0	731.0	731.8	732.7
175°	738.0	737.5	737.0	736.5	736.3	736.3	736.3	736.3	736.3	737.0	737.8
177.5°	740.8	740.4	740.0	739.5	739.3	739.2	739.1	739.0	738.9	739.5	740.1
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	945.2	947.7	952.9	951.1	953.5	954.7	956.0
5°	1021.6	1033.9	1039.3	1038.4	1046.5	1044.6	1042.7
7.5°	1107.8	1120.7	1127.9	1136.9	1142.2	1142.5	1147.0
10°	1156.6	1173.5	1180.4	1190.0	1196.2	1199.6	1199.2
12.5°	1194.1	1207.3	1222.7	1227.5	1235.8	1240.1	1238.5
15°	1239.1	1260.2	1276.3	1284.3	1294.7	1297.8	1302.0
17.5°	1279.3	1307.6	1326.5	1351.4	1360.9	1366.7	1363.2
20°	1309.7	1346.9	1365.7	1395.6	1412.1	1421.0	1417.9
22.5°	1345.6	1385.8	1420.7	1446.5	1471.7	1483.6	1486.0
25°	1407.1	1462.4	1513.4	1547.5	1578.6	1585.9	1602.0
27.5°	1475.9	1541.1	1595.6	1631.4	1653.1	1661.2	1666.3
30°	1519.1	1584.0	1625.1	1648.0	1655.0	1654.2	1653.5
32.5°	1540.3	1580.9	1588.8	1582.4	1566.6	1553.2	1539.2
35°	1510.4	1480.1	1434.7	1376.4	1333.5	1290.1	1285.9
37.5°	1358.4	1261.4	1186.1	1102.0	1053.4	1023.4	1002.6
40°	1215.3	1105.2	1013.9	942.9	893.4	873.9	854.7
42.5°	1060.1	954.8	873.9	814.7	777.5	755.8	740.5
45°	861.2	768.4	705.1	662.2	632.6	615.7	606.1
47.5°	705.7	637.0	583.3	552.3	531.9	518.8	518.8
50°	622.3	556.6	521.0	496.4	478.8	468.4	470.3
52.5°	548.3	499.3	468.8	448.2	435.2	428.8	428.6
55°	458.5	423.1	403.2	388.2	379.4	372.1	373.7
57.5°	392.1	362.3	349.0	336.6	330.4	327.5	323.4
60°	351.0	328.0	316.5	306.5	300.3	298.1	293.9
62.5°	314.5	296.4	285.2	277.0	271.6	270.7	267.4
65°	264.3	250.5	240.5	236.7	231.0	229.4	229.4
67.5°	217.9	208.0	200.3	196.7	194.2	194.6	192.7
70°	188.7	180.7	175.7	171.9	170.0	170.4	168.7
72.5°	165.1	156.1	151.8	149.5	146.9	147.9	147.3
75°	125.0	120.5	118.2	115.8	114.3	113.5	112.8
77.5°	91.8	87.8	86.0	84.7	84.9	83.1	84.5
80°	71.0	67.6	66.3	64.4	64.0	64.0	63.7
82.5°	51.9	50.0	49.2	47.6	46.9	47.5	46.5
85°	26.9	25.3	24.9	24.9	24.1	23.4	25.3
87.5°	12.0	10.9	11.0	10.8	10.9	10.7	10.1
90°	11.1	11.8	12.3	12.7	13.0	13.4	13.8
92.5°	24.6	25.5	26.1	26.4	26.7	26.9	27.2
95°	47.1	48.0	48.5	48.8	49.1	49.3	49.6
97.5°	73.2	74.0	74.5	74.6	74.8	74.9	75.1
100°	91.6	92.7	93.4	93.7	94.0	94.2	94.5
102.5°	110.4	111.6	112.4	112.8	113.1	113.5	113.8
105°	140.0	140.8	141.4	141.7	142.1	142.5	142.9
107.5°	172.2	172.5	172.7	172.7	172.7	172.6	172.6
110°	194.7	195.1	195.2	195.1	195.0	194.8	194.7



TEST NUMBER: P333170-840

CATALOG NUMBER: S125DIP-S610D590U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	217.1	217.3	217.3	217.1	216.8	216.6	216.4
115°	251.4	251.3	251.2	251.0	250.9	250.7	250.6
117.5°	286.2	286.3	286.1	285.6	285.1	284.6	284.0
120°	309.3	309.3	309.1	308.6	308.1	307.6	307.1
122.5°	332.1	332.0	331.7	331.3	330.9	330.5	330.1
125°	365.7	365.4	365.2	365.1	365.0	364.8	364.7
127.5°	399.2	399.1	398.9	398.6	398.4	398.1	397.9
130°	421.3	421.2	421.0	420.7	420.5	420.2	420.0
132.5°	442.5	442.4	442.1	441.8	441.4	441.1	440.7
135°	475.2	475.2	475.0	474.5	474.0	473.5	473.0
137.5°	507.2	507.4	507.2	506.4	505.8	505.2	504.5
140°	527.4	527.6	527.4	526.7	526.1	525.4	524.8
142.5°	546.8	546.9	546.7	546.1	545.4	544.8	544.2
145°	574.9	574.9	574.7	574.4	574.0	573.6	573.2
147.5°	601.5	601.8	601.5	600.6	599.8	598.8	598.0
150°	617.5	617.5	617.4	617.2	616.9	616.7	616.4
152.5°	633.3	633.6	633.5	633.0	632.6	632.1	631.7
155°	655.4	655.9	655.9	655.2	654.6	653.9	653.3
157.5°	674.4	674.9	674.8	673.9	673.1	672.3	671.4
160°	685.9	686.4	686.4	685.8	685.1	684.5	683.9
162.5°	696.8	697.5	697.4	696.7	695.9	695.2	694.4
165°	711.2	711.9	711.7	710.9	710.1	709.3	708.6
167.5°	722.4	723.1	723.1	722.3	721.4	720.6	719.9
170°	728.7	729.5	729.4	728.6	727.7	726.8	725.9
172.5°	733.4	734.2	734.2	733.4	732.6	731.7	730.9
175°	738.5	739.3	739.2	738.4	737.5	736.6	735.7
177.5°	740.7	741.3	741.3	740.6	739.9	739.1	738.4
180°	740.3	740.3	740.3	740.3	740.3	740.3	740.3

(END OF REPORT)