

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: P333169-935

Luminaire Tested: **S125DIP-S610D590U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333169-935
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-S610D590U935-4F0-1E-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: 4210.8 lumens
Efficiency: N/A
Efficacy: 128.4 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

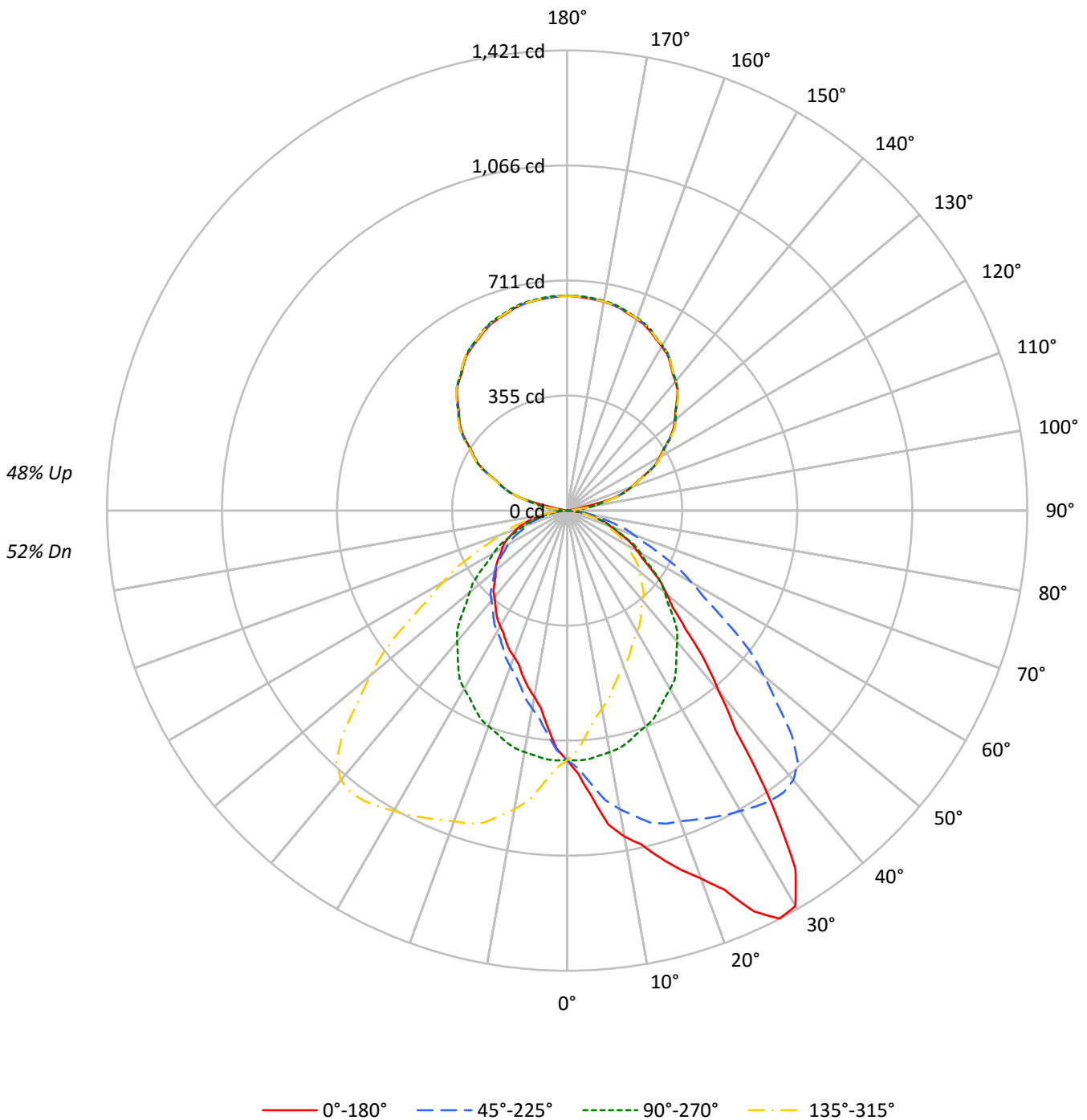
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	4977	4977	4977	4977
5°	5763	4994	4372	4994
10°	6705	4968	3831	4968
15°	7422	4931	3534	4931
20°	8308	4874	3296	4874
25°	9733	4809	3180	4809
30°	10513	4744	3078	4744
35°	8643	4623	3012	4623
40°	6144	4457	2939	4457
45°	4720	4230	2898	4230
50°	4029	3950	2892	3950
55°	3587	3675	2917	3675
60°	3237	3375	2992	3375
65°	2989	3073	3069	3073
70°	2717	2761	3114	2761
75°	2400	2433	3084	2433
80°	2020	1982	2823	1982
85°	1601	1430	2275	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.8
10°-20°	220.9	5.2
20°-30°	358.6	8.5
30°-40°	437.5	10.4
40°-50°	398.0	9.5
50°-60°	317.0	7.5
60°-70°	220.8	5.2
70°-80°	117.7	2.8
80°-90°	31.1	0.7
90°-100°	24.1	0.6
100°-110°	148.4	3.5
110°-120°	269.2	6.4
120°-130°	345.5	8.2
130°-140°	371.6	8.8
140°-150°	348.8	8.3
150°-160°	282.1	6.7
160°-170°	182.5	4.3
170°-180°	62.9	1.5
0°-30°	653.7	15.5
0°-40°	1091.2	25.9
0°-60°	1806.2	42.9
0°-90°	2175.8	51.7
90°-120°	441.7	10.5
90°-150°	1507.5	35.8
90°-180°	2035.0	48.3
0°-180°	4210.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	771	771	771	771	771	
5°	889	770	674	770	889	90
15°	1110	738	529	738	1110	318
25°	1366	675	446	675	1366	624
35°	1096	586	382	586	1096	671
45°	517	463	317	463	517	414
55°	319	326	259	326	319	287
65°	196	201	201	201	196	194
75°	96	98	124	98	96	104
85°	22	19	31	19	22	25
90°	12	0	12	0	12	6
95°	10	28	10	28	10	9
105°	146	144	146	144	146	132
115°	269	271	269	271	269	267
125°	386	386	386	386	386	343
135°	479	481	479	481	479	370
145°	556	558	556	558	556	347
155°	610	614	610	614	610	281
165°	644	648	644	648	644	182
175°	660	663	660	663	660	63
180°	663	663	663	663	663	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	815.1	814.0	813.0	810.9	812.4	808.0	805.9	802.3	797.8	796.3	794.4
5°	889.0	890.6	892.3	885.4	886.1	881.5	871.0	862.5	855.7	846.8	840.6
7.5°	977.9	974.0	973.8	969.3	961.7	955.5	944.5	930.5	917.0	901.6	888.8
10°	1022.4	1022.8	1019.9	1014.6	1006.4	1000.5	986.1	972.4	955.7	936.1	922.0
12.5°	1055.9	1057.3	1053.6	1046.5	1042.5	1029.3	1018.0	1001.7	981.9	966.2	944.8
15°	1110.1	1106.5	1103.9	1095.0	1088.1	1074.4	1056.4	1039.4	1017.9	997.9	977.9
17.5°	1162.3	1165.2	1160.3	1152.2	1130.9	1114.8	1090.7	1067.5	1040.5	1013.8	990.0
20°	1208.8	1211.5	1203.9	1189.9	1164.4	1148.3	1116.6	1086.5	1055.5	1021.1	995.0
22.5°	1267.0	1264.9	1254.7	1233.3	1211.3	1181.6	1147.3	1110.6	1071.7	1032.9	998.1
25°	1365.9	1352.1	1345.9	1319.4	1290.3	1246.8	1199.7	1146.1	1097.7	1046.3	1001.9
27.5°	1420.6	1416.3	1409.5	1390.9	1360.4	1313.9	1258.4	1193.0	1124.6	1059.9	1001.6
30°	1409.7	1410.3	1411.0	1405.1	1385.5	1350.5	1295.2	1224.9	1143.8	1070.8	1003.5
32.5°	1312.3	1324.2	1335.7	1349.1	1354.6	1347.9	1313.3	1249.7	1166.3	1083.4	1002.4
35°	1096.3	1099.9	1137.0	1173.5	1223.2	1261.9	1287.7	1259.6	1189.2	1094.1	1001.2
37.5°	854.8	872.5	898.1	939.5	1011.2	1075.5	1158.1	1196.1	1173.4	1097.5	998.8
40°	728.8	745.1	761.7	803.9	864.4	942.3	1036.1	1116.3	1135.0	1086.5	991.0
42.5°	631.4	644.4	662.9	694.6	745.1	814.1	903.8	1008.5	1072.9	1054.6	974.6
45°	516.8	525.0	539.3	564.6	601.2	655.1	734.3	848.8	948.5	981.5	935.4
47.5°	442.3	442.3	453.5	470.9	497.3	543.1	601.7	691.4	797.9	876.8	873.1
50°	401.0	399.3	408.2	423.3	444.2	474.6	530.5	602.2	704.6	793.8	818.6
52.5°	365.4	365.6	371.0	382.1	399.7	425.7	467.4	532.0	619.5	711.1	757.9
55°	318.6	317.3	323.5	331.0	343.8	360.8	390.9	440.2	511.2	601.5	662.3
57.5°	275.7	279.2	281.7	287.0	297.6	308.9	334.3	370.6	426.9	504.4	568.7
60°	250.6	254.2	256.1	261.3	269.8	279.7	299.3	328.7	376.2	442.9	506.6
62.5°	228.0	230.8	231.5	236.2	243.1	252.7	268.1	292.8	330.4	388.7	451.2
65°	195.6	195.6	196.9	201.8	205.1	213.6	225.3	243.3	273.5	318.9	372.2
67.5°	164.3	165.9	165.6	167.7	170.7	177.4	185.8	200.6	222.9	256.1	298.8
70°	143.9	145.3	144.9	146.5	149.8	154.0	160.9	175.0	191.0	219.5	256.1
72.5°	125.6	126.1	125.3	127.4	129.4	133.1	140.8	148.3	163.2	187.3	217.4
75°	96.2	96.8	97.5	98.8	100.7	102.7	106.6	114.2	124.0	142.0	161.3
77.5°	72.1	70.9	72.4	72.2	73.4	74.8	78.3	82.3	90.3	101.7	116.7
80°	54.3	54.6	54.6	54.9	56.6	57.6	60.5	63.5	69.7	78.2	88.6
82.5°	39.6	40.5	40.0	40.6	41.9	42.6	44.3	46.7	50.3	57.0	64.6
85°	21.6	20.0	20.6	21.3	21.3	21.6	22.9	23.8	25.8	28.4	31.4
87.5°	8.6	9.1	9.3	9.2	9.4	9.3	10.2	10.2	10.8	11.5	12.4
90°	11.8	11.5	11.1	10.8	10.5	10.1	9.5	9.0	8.4	7.8	7.1
92.5°	11.0	10.8	10.7	10.5	10.4	10.1	9.5	9.0	8.4	7.8	7.1
95°	10.3	10.3	10.3	10.3	10.3	10.1	9.5	9.0	8.4	7.8	12.0
97.5°	10.3	10.3	10.3	10.3	10.3	11.9	14.9	18.0	21.1	24.2	32.4
100°	10.3	10.8	11.2	11.6	12.1	20.4	36.7	53.0	69.2	85.5	85.1
102.5°	61.8	69.2	76.6	84.0	91.5	96.8	99.8	102.9	106.0	109.1	108.8
105°	145.9	146.0	146.1	146.2	146.4	146.4	146.4	146.4	146.4	146.4	146.4
107.5°	183.9	184.3	184.6	184.9	185.2	185.4	185.4	185.4	185.3	185.3	185.1
110°	210.3	210.2	210.0	209.9	209.8	209.9	210.3	210.6	210.9	211.2	211.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	233.8	234.0	234.1	234.3	234.5	234.7	235.1	235.6	236.0	236.3	236.3
115°	269.2	269.8	270.5	271.1	271.8	272.3	272.8	273.2	273.7	274.1	274.0
117.5°	306.9	307.2	307.5	307.8	308.1	308.5	309.0	309.6	310.2	310.7	310.3
120°	330.1	330.6	331.2	331.7	332.3	332.7	332.9	333.1	333.3	333.6	333.2
122.5°	352.1	352.8	353.4	354.0	354.6	355.1	355.3	355.5	355.8	355.9	355.8
125°	385.6	386.0	386.2	386.6	386.9	387.3	387.7	388.2	388.7	389.1	389.1
127.5°	413.8	414.7	415.4	416.2	417.1	417.6	417.8	418.0	418.3	418.5	418.6
130°	434.3	434.8	435.3	435.9	436.4	436.9	437.2	437.6	437.8	438.2	438.1
132.5°	453.1	453.7	454.2	454.8	455.3	455.6	455.6	455.7	455.8	455.9	456.1
135°	479.0	479.6	480.3	481.0	481.6	482.0	482.2	482.4	482.7	482.8	483.1
137.5°	504.9	505.5	506.0	506.6	507.1	507.4	507.4	507.3	507.3	507.2	507.5
140°	520.2	520.9	521.5	522.2	522.8	523.1	522.8	522.6	522.4	522.2	522.3
142.5°	534.8	535.4	536.1	536.7	537.4	537.7	537.6	537.6	537.5	537.5	537.4
145°	556.0	556.7	557.4	558.0	558.7	559.0	558.9	558.8	558.6	558.5	558.5
147.5°	573.7	574.5	575.2	576.0	576.8	577.1	577.0	576.9	576.8	576.6	576.4
150°	585.0	585.9	586.8	587.7	588.6	588.8	588.7	588.4	588.2	588.0	587.8
152.5°	595.6	596.4	597.3	598.1	598.8	599.1	598.9	598.7	598.5	598.2	598.0
155°	609.6	610.5	611.4	612.3	613.1	613.4	613.0	612.8	612.4	612.1	611.8
157.5°	621.3	622.2	623.0	624.0	624.8	625.1	624.7	624.4	624.1	623.7	623.6
160°	628.8	629.6	630.5	631.4	632.2	632.5	632.1	631.6	631.2	630.8	630.6
162.5°	635.4	636.5	637.4	638.3	639.3	639.5	638.9	638.3	637.7	637.1	636.9
165°	644.5	645.4	646.3	647.1	648.0	648.1	647.5	646.8	646.1	645.5	645.4
167.5°	650.7	651.8	652.7	653.8	654.7	654.8	654.0	653.2	652.5	651.7	651.5
170°	654.4	655.3	656.3	657.3	658.2	658.3	657.5	656.6	655.7	654.8	654.7
172.5°	656.7	657.6	658.7	659.6	660.6	660.7	660.0	659.1	658.3	657.5	657.4
175°	659.7	660.7	661.7	662.7	663.7	663.7	662.8	661.9	661.1	660.2	660.1
177.5°	661.5	662.2	662.9	663.6	664.3	664.3	663.7	663.1	662.5	661.9	661.8
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	792.8	791.0	788.9	785.2	780.8	778.4	774.8	772.4	767.7	763.8	759.6
5°	833.0	824.6	816.7	806.6	795.5	788.2	779.7	770.3	760.4	750.3	739.2
7.5°	874.7	859.7	843.3	825.7	808.6	792.7	777.6	762.8	748.9	732.1	717.9
10°	902.8	883.7	863.5	839.6	816.4	796.1	775.5	757.5	739.2	719.5	702.2
12.5°	930.7	905.4	876.8	850.6	822.7	798.2	774.0	751.0	728.0	706.2	686.0
15°	950.5	928.2	901.7	864.4	833.0	799.4	767.3	737.5	709.7	685.5	660.0
17.5°	963.5	934.9	906.4	870.6	829.5	791.8	755.4	721.4	690.1	659.4	634.8
20°	965.9	936.4	906.6	871.7	829.5	786.3	750.0	709.1	675.4	643.7	613.5
22.5°	965.1	931.7	899.3	863.2	822.2	782.4	738.5	696.8	660.2	629.0	597.6
25°	957.7	922.0	881.5	845.2	804.6	762.4	717.9	674.8	637.5	601.8	570.8
27.5°	951.5	905.3	859.4	817.0	777.8	739.2	696.6	652.4	611.1	574.9	545.6
30°	943.9	893.2	841.5	797.4	757.2	719.5	679.3	636.2	593.0	557.7	526.2
32.5°	937.1	878.0	823.5	775.4	732.9	696.3	659.2	618.1	575.8	539.8	508.5
35°	924.0	855.7	793.2	738.8	693.4	655.8	624.7	586.4	547.5	512.8	482.8
37.5°	907.3	826.2	759.1	702.2	652.4	612.8	583.8	554.5	517.1	483.7	456.5
40°	894.2	805.3	734.3	676.1	624.4	583.2	556.4	528.6	497.5	466.4	437.6
42.5°	877.7	786.4	709.1	646.5	595.4	555.2	527.0	503.4	476.0	447.0	420.3
45°	847.5	752.3	668.6	601.2	549.5	509.9	480.8	463.1	442.6	415.1	392.5
47.5°	802.9	711.3	624.7	555.1	501.8	465.1	437.8	420.9	406.4	386.0	365.5
50°	763.4	680.6	593.0	524.0	470.6	433.7	408.5	393.1	380.7	365.0	347.7
52.5°	719.2	642.1	561.9	493.6	440.8	404.4	379.7	366.2	355.9	344.6	327.5
55°	648.9	583.5	508.9	444.2	395.5	359.8	338.2	326.4	317.9	309.4	298.9
57.5°	571.5	520.4	454.3	395.1	350.3	317.8	297.6	286.2	279.6	275.2	269.1
60°	517.1	473.3	416.4	362.4	318.6	289.8	270.2	261.3	255.8	252.2	247.6
62.5°	466.6	430.6	377.9	328.6	290.3	263.1	245.6	237.0	231.7	230.0	226.1
65°	392.2	364.4	320.9	280.0	247.3	224.0	209.3	201.1	197.9	195.9	196.2
67.5°	318.8	301.9	267.0	232.1	206.0	186.5	174.7	168.4	166.8	164.2	164.1
70°	274.1	261.3	231.9	201.5	178.2	163.2	152.7	146.2	144.6	143.3	142.9
72.5°	234.5	223.4	197.9	173.5	152.7	139.4	130.8	126.8	124.2	123.4	123.3
75°	176.3	170.0	149.8	130.5	116.1	106.9	101.1	97.5	95.5	95.1	95.5
77.5°	125.4	119.9	107.0	93.3	84.3	77.3	72.3	71.1	68.9	69.0	68.6
80°	94.2	90.6	82.4	71.6	64.1	58.2	55.6	53.3	52.7	51.7	52.7
82.5°	68.3	64.4	58.9	52.0	45.8	42.3	39.6	38.9	38.5	38.1	38.2
85°	33.7	34.0	30.7	25.5	22.9	20.9	19.3	19.3	18.9	18.7	18.9
87.5°	12.7	12.1	10.9	10.0	8.4	7.5	7.1	7.1	6.5	6.5	6.9
90°	6.4	5.6	4.8	4.0	3.1	2.2	1.4	0.5	1.4	2.2	3.1
92.5°	6.5	5.9	5.2	5.1	5.8	6.4	7.0	7.6	7.0	6.4	5.8
95°	16.2	20.3	24.5	26.7	27.0	27.4	27.6	28.0	27.6	27.4	27.0
97.5°	40.6	48.8	57.0	60.8	60.2	59.7	59.1	58.5	59.1	59.7	60.2
100°	84.6	84.2	83.7	83.3	83.0	82.7	82.4	82.1	82.4	82.7	83.0
102.5°	108.6	108.2	108.0	107.6	107.3	106.9	106.4	106.0	106.4	106.9	107.3
105°	146.4	146.4	146.4	146.2	145.8	145.3	144.8	144.4	144.8	145.3	145.8
107.5°	184.9	184.6	184.4	184.3	184.3	184.3	184.3	184.3	184.3	184.3	184.3
110°	210.8	210.6	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	236.1	236.0	235.8	235.7	235.4	235.1	234.9	234.6	234.9	235.1	235.4
115°	273.9	273.8	273.7	273.4	272.8	272.2	271.7	271.1	271.7	272.2	272.8
117.5°	310.0	309.5	309.1	308.9	308.9	308.9	308.9	309.0	308.9	308.9	308.9
120°	332.9	332.6	332.3	332.1	332.3	332.3	332.4	332.6	332.4	332.3	332.3
122.5°	355.7	355.5	355.3	355.1	354.6	354.2	353.8	353.4	353.8	354.2	354.6
125°	389.1	389.1	389.1	388.7	387.9	387.1	386.4	385.6	386.4	387.1	387.9
127.5°	418.7	418.7	418.8	418.5	418.0	417.5	416.9	416.4	416.9	417.5	418.0
130°	438.0	437.8	437.7	437.4	436.9	436.4	435.8	435.2	435.8	436.4	436.9
132.5°	456.3	456.6	456.8	456.6	456.0	455.4	454.7	454.1	454.7	455.4	456.0
135°	483.3	483.5	483.8	483.5	482.8	482.2	481.6	481.0	481.6	482.2	482.8
137.5°	507.6	507.8	508.1	507.8	507.3	506.7	506.2	505.6	506.2	506.7	507.3
140°	522.4	522.5	522.6	522.5	522.4	522.1	521.9	521.7	521.9	522.1	522.4
142.5°	537.2	537.1	536.9	536.7	536.7	536.5	536.4	536.2	536.4	536.5	536.7
145°	558.5	558.5	558.5	558.4	558.2	558.0	557.8	557.6	557.8	558.0	558.2
147.5°	576.4	576.2	576.1	576.0	576.1	576.1	576.2	576.2	576.2	576.1	576.1
150°	587.5	587.4	587.1	587.1	587.4	587.5	587.8	588.0	587.8	587.5	587.4
152.5°	597.8	597.5	597.4	597.4	598.0	598.5	598.9	599.4	598.9	598.5	598.0
155°	611.7	611.4	611.2	611.4	612.1	612.8	613.4	614.1	613.4	612.8	612.1
157.5°	623.6	623.6	623.6	623.8	624.1	624.6	624.9	625.3	624.9	624.6	624.1
160°	630.5	630.4	630.3	630.6	631.2	631.9	632.6	633.2	632.6	631.9	631.2
162.5°	636.8	636.7	636.6	636.9	637.5	638.2	638.9	639.5	638.9	638.2	637.5
165°	645.2	645.1	645.1	645.3	646.0	646.6	647.3	647.9	647.3	646.6	646.0
167.5°	651.4	651.3	651.3	651.5	652.2	652.9	653.6	654.2	653.6	652.9	652.2
170°	654.6	654.4	654.4	654.7	655.5	656.3	657.0	657.8	657.0	656.3	655.5
172.5°	657.2	656.9	656.8	657.0	657.8	658.6	659.4	660.1	659.4	658.6	657.8
175°	660.0	659.9	659.8	660.0	660.7	661.3	662.0	662.7	662.0	661.3	660.7
177.5°	661.7	661.6	661.5	661.8	662.3	662.8	663.3	663.8	663.3	662.8	662.3
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	757.2	754.3	752.0	746.7	743.9	739.9	736.8	740.2	736.6	738.1	735.8
5°	733.7	724.4	717.9	708.4	700.3	692.8	687.2	686.2	683.5	682.3	678.4
7.5°	705.2	693.8	682.5	670.1	659.6	649.0	642.1	636.5	632.8	627.9	624.6
10°	688.5	673.1	660.0	645.0	631.9	620.4	611.3	606.7	602.4	596.2	594.0
12.5°	667.8	651.9	635.9	619.8	607.3	594.5	586.7	579.8	576.9	569.8	569.1
15°	643.0	619.1	603.5	587.1	569.7	559.3	552.8	545.3	542.0	537.1	533.5
17.5°	613.5	592.1	572.5	555.6	540.7	531.9	523.7	518.6	513.0	509.8	503.9
20°	592.0	571.7	552.1	534.1	522.6	512.6	506.0	501.1	495.2	493.5	487.7
22.5°	573.9	551.6	532.7	517.6	505.1	493.7	486.6	483.3	479.2	474.2	473.0
25°	544.6	521.3	505.3	490.3	479.1	468.7	463.8	459.5	455.6	452.0	450.7
27.5°	519.2	498.4	479.4	465.8	456.2	446.6	442.3	437.1	434.2	431.4	427.8
30°	501.4	480.2	463.5	450.4	439.9	431.4	426.8	423.3	420.6	418.0	416.0
32.5°	483.1	463.4	447.2	434.5	424.0	417.6	413.5	411.0	408.0	404.9	402.4
35°	458.9	437.3	421.6	410.4	402.3	397.4	392.8	390.5	387.3	387.3	384.6
37.5°	431.6	412.9	399.1	388.9	381.6	377.2	372.3	370.7	368.6	367.2	366.4
40°	415.3	398.0	385.0	374.8	367.0	363.3	359.5	356.8	355.5	353.9	353.3
42.5°	398.6	382.1	369.5	360.2	353.4	350.3	346.6	344.8	342.2	340.0	339.7
45°	373.2	357.1	345.7	338.2	332.3	328.7	326.4	322.5	321.2	318.6	318.2
47.5°	349.0	333.6	322.4	316.2	311.1	308.2	304.5	300.7	299.1	297.8	297.7
50°	331.0	316.9	306.4	300.6	295.7	291.4	287.8	285.2	284.2	284.2	284.9
52.5°	312.7	300.7	291.8	284.6	280.0	275.4	272.2	270.5	269.1	270.6	271.8
55°	285.9	273.8	267.3	260.4	255.8	250.6	248.9	248.2	247.3	249.9	251.2
57.5°	257.4	249.0	241.3	234.5	230.4	227.4	225.2	224.8	226.6	227.8	232.1
60°	239.4	229.6	222.7	217.5	212.6	210.6	210.0	209.3	210.6	214.2	219.8
62.5°	219.6	211.5	204.1	200.3	196.7	193.4	193.2	193.6	196.2	200.4	206.0
65°	190.4	183.5	178.6	174.0	171.1	169.1	169.8	171.1	174.0	179.6	185.8
67.5°	160.7	156.0	151.6	147.9	145.1	145.1	145.8	147.7	151.2	157.6	163.2
70°	141.6	136.4	132.8	131.1	128.9	127.6	129.5	132.8	135.7	141.6	146.5
72.5°	122.5	118.0	115.3	114.2	113.1	112.1	112.8	116.3	120.3	126.2	131.9
75°	94.2	92.6	90.6	89.3	88.3	88.9	89.6	92.9	96.2	102.4	108.9
77.5°	68.8	67.1	65.9	65.5	65.0	65.3	67.2	69.6	72.8	77.3	82.3
80°	52.0	51.3	50.7	50.4	50.4	50.7	53.3	54.9	57.9	62.2	66.0
82.5°	37.9	37.5	37.4	37.3	37.5	37.6	39.2	41.3	43.7	47.0	50.4
85°	20.0	19.3	20.3	20.6	20.0	20.9	21.6	22.9	23.8	25.5	27.1
87.5°	7.3	8.0	7.9	8.4	8.5	9.1	9.0	10.2	10.8	11.5	11.3
90°	4.0	4.8	5.6	6.4	7.1	7.8	8.4	9.0	9.5	10.1	10.5
92.5°	5.1	5.2	5.9	6.5	7.1	7.8	8.4	9.0	9.5	10.1	10.4
95°	26.7	24.5	20.3	16.2	12.0	7.8	8.4	9.0	9.5	10.1	10.3
97.5°	60.8	57.0	48.8	40.6	32.4	24.2	21.1	18.0	14.9	11.9	10.3
100°	83.3	83.7	84.2	84.6	85.1	85.5	69.2	53.0	36.7	20.4	12.1
102.5°	107.6	108.0	108.2	108.6	108.8	109.1	106.0	102.9	99.8	96.8	91.5
105°	146.2	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
107.5°	184.3	184.4	184.6	184.9	185.1	185.3	185.3	185.4	185.4	185.4	185.2
110°	210.3	210.3	210.6	210.8	211.0	211.2	210.9	210.6	210.3	209.9	209.8



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	235.7	235.8	236.0	236.1	236.3	236.3	236.0	235.6	235.1	234.7	234.5
115°	273.4	273.7	273.8	273.9	274.0	274.1	273.7	273.2	272.8	272.3	271.8
117.5°	308.9	309.1	309.5	310.0	310.3	310.7	310.2	309.6	309.0	308.5	308.1
120°	332.1	332.3	332.6	332.9	333.2	333.6	333.3	333.1	332.9	332.7	332.3
122.5°	355.1	355.3	355.5	355.7	355.8	355.9	355.8	355.5	355.3	355.1	354.6
125°	388.7	389.1	389.1	389.1	389.1	389.1	388.7	388.2	387.7	387.3	386.9
127.5°	418.5	418.8	418.7	418.7	418.6	418.5	418.3	418.0	417.8	417.6	417.1
130°	437.4	437.7	437.8	438.0	438.1	438.2	437.8	437.6	437.2	436.9	436.4
132.5°	456.6	456.8	456.6	456.3	456.1	455.9	455.8	455.7	455.6	455.6	455.3
135°	483.5	483.8	483.5	483.3	483.1	482.8	482.7	482.4	482.2	482.0	481.6
137.5°	507.8	508.1	507.8	507.6	507.5	507.2	507.3	507.3	507.4	507.4	507.1
140°	522.5	522.6	522.5	522.4	522.3	522.2	522.4	522.6	522.8	523.1	522.8
142.5°	536.7	536.9	537.1	537.2	537.4	537.5	537.5	537.6	537.6	537.7	537.4
145°	558.4	558.5	558.5	558.5	558.5	558.5	558.6	558.8	558.9	559.0	558.7
147.5°	576.0	576.1	576.2	576.4	576.4	576.6	576.8	576.9	577.0	577.1	576.8
150°	587.1	587.1	587.4	587.5	587.8	588.0	588.2	588.4	588.7	588.8	588.6
152.5°	597.4	597.4	597.5	597.8	598.0	598.2	598.5	598.7	598.9	599.1	598.8
155°	611.4	611.2	611.4	611.7	611.8	612.1	612.4	612.8	613.0	613.4	613.1
157.5°	623.8	623.6	623.6	623.6	623.6	623.7	624.1	624.4	624.7	625.1	624.8
160°	630.6	630.3	630.4	630.5	630.6	630.8	631.2	631.6	632.1	632.5	632.2
162.5°	636.9	636.6	636.7	636.8	636.9	637.1	637.7	638.3	638.9	639.5	639.3
165°	645.3	645.1	645.1	645.2	645.4	645.5	646.1	646.8	647.5	648.1	648.0
167.5°	651.5	651.3	651.3	651.4	651.5	651.7	652.5	653.2	654.0	654.8	654.7
170°	654.7	654.4	654.4	654.6	654.7	654.8	655.7	656.6	657.5	658.3	658.2
172.5°	657.0	656.8	656.9	657.2	657.4	657.5	658.3	659.1	660.0	660.7	660.6
175°	660.0	659.8	659.9	660.0	660.1	660.2	661.1	661.9	662.8	663.7	663.7
177.5°	661.8	661.5	661.6	661.7	661.8	661.9	662.5	663.1	663.7	664.3	664.3
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	734.2	736.1	734.5	736.6	734.5	736.1	734.2	735.8	738.1	736.6	740.2
5°	676.7	673.7	675.7	674.4	675.7	673.7	676.7	678.4	682.3	683.5	686.2
7.5°	623.6	620.8	617.6	616.0	617.6	620.8	623.6	624.6	627.9	632.8	636.5
10°	590.4	586.8	586.4	584.2	586.4	586.8	590.4	594.0	596.2	602.4	606.7
12.5°	566.0	562.7	559.0	558.0	559.0	562.7	566.0	569.1	569.8	576.9	579.8
15°	531.5	528.9	526.6	528.6	526.6	528.9	531.5	533.5	537.1	542.0	545.3
17.5°	502.7	500.6	500.2	497.8	500.2	500.6	502.7	503.9	509.8	513.0	518.6
20°	484.7	483.1	483.7	479.5	483.7	483.1	484.7	487.7	493.5	495.2	501.1
22.5°	470.4	467.1	466.7	465.9	466.7	467.1	470.4	473.0	474.2	479.2	483.3
25°	447.8	446.2	444.5	446.2	444.5	446.2	447.8	450.7	452.0	455.6	459.5
27.5°	428.1	426.1	425.7	425.9	425.7	426.1	428.1	427.8	431.4	434.2	437.1
30°	416.0	412.8	413.1	412.8	413.1	412.8	416.0	416.0	418.0	420.6	423.3
32.5°	402.9	400.7	400.3	399.7	400.3	400.7	402.9	402.4	404.9	408.0	411.0
35°	383.7	383.7	382.0	382.0	382.0	383.7	383.7	384.6	387.3	387.3	390.5
37.5°	365.5	365.2	364.2	364.4	364.2	365.2	365.5	366.4	367.2	368.6	370.7
40°	351.9	351.6	350.6	348.6	350.6	351.6	351.9	353.3	353.9	355.5	356.8
42.5°	338.9	337.8	337.3	336.7	337.3	337.8	338.9	339.7	340.0	342.2	344.8
45°	318.2	318.2	317.6	317.3	317.6	318.2	318.2	318.2	318.6	321.2	322.5
47.5°	298.3	298.9	300.1	299.9	300.1	298.9	298.3	297.7	297.8	299.1	300.7
50°	286.2	286.5	287.5	287.8	287.5	286.5	286.2	284.9	284.2	284.2	285.2
52.5°	272.9	274.7	276.0	275.8	276.0	274.7	272.9	271.8	270.6	269.1	270.5
55°	254.2	256.4	258.7	259.1	258.7	256.4	254.2	251.2	249.9	247.3	248.2
57.5°	235.7	238.8	241.3	242.0	241.3	238.8	235.7	232.1	227.8	226.6	224.8
60°	223.1	227.3	230.2	231.6	230.2	227.3	223.1	219.8	214.2	210.6	209.3
62.5°	211.0	215.8	218.8	219.0	218.8	215.8	211.0	206.0	200.4	196.2	193.6
65°	191.3	196.2	198.9	200.8	198.9	196.2	191.3	185.8	179.6	174.0	171.1
67.5°	170.1	175.0	178.0	179.5	178.0	175.0	170.1	163.2	157.6	151.2	147.7
70°	154.7	159.6	163.5	164.9	163.5	159.6	154.7	146.5	141.6	135.7	132.8
72.5°	139.6	143.9	147.1	148.6	147.1	143.9	139.6	131.9	126.2	120.3	116.3
75°	113.1	119.1	122.0	123.6	122.0	119.1	113.1	108.9	102.4	96.2	92.9
77.5°	87.3	92.6	94.4	95.2	94.4	92.6	87.3	82.3	77.3	72.8	69.6
80°	70.0	73.3	75.6	75.9	75.6	73.3	70.0	66.0	62.2	57.9	54.9
82.5°	53.8	56.5	57.3	58.1	57.3	56.5	53.8	50.4	47.0	43.7	41.3
85°	29.4	30.7	31.1	30.7	31.1	30.7	29.4	27.1	25.5	23.8	22.9
87.5°	11.9	11.6	11.7	12.3	11.7	11.6	11.9	11.3	11.5	10.8	10.2
90°	10.8	11.1	11.5	11.8	11.5	11.1	10.8	10.5	10.1	9.5	9.0
92.5°	10.5	10.7	10.8	11.0	10.8	10.7	10.5	10.4	10.1	9.5	9.0
95°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.1	9.5	9.0
97.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	11.9	14.9	18.0
100°	11.6	11.2	10.8	10.3	10.8	11.2	11.6	12.1	20.4	36.7	53.0
102.5°	84.0	76.6	69.2	61.8	69.2	76.6	84.0	91.5	96.8	99.8	102.9
105°	146.2	146.1	146.0	145.9	146.0	146.1	146.2	146.4	146.4	146.4	146.4
107.5°	184.9	184.6	184.3	183.9	184.3	184.6	184.9	185.2	185.4	185.4	185.4
110°	209.9	210.0	210.2	210.3	210.2	210.0	209.9	209.8	209.9	210.3	210.6



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	234.3	234.1	234.0	233.8	234.0	234.1	234.3	234.5	234.7	235.1	235.6
115°	271.1	270.5	269.8	269.2	269.8	270.5	271.1	271.8	272.3	272.8	273.2
117.5°	307.8	307.5	307.2	306.9	307.2	307.5	307.8	308.1	308.5	309.0	309.6
120°	331.7	331.2	330.6	330.1	330.6	331.2	331.7	332.3	332.7	332.9	333.1
122.5°	354.0	353.4	352.8	352.1	352.8	353.4	354.0	354.6	355.1	355.3	355.5
125°	386.6	386.2	386.0	385.6	386.0	386.2	386.6	386.9	387.3	387.7	388.2
127.5°	416.2	415.4	414.7	413.8	414.7	415.4	416.2	417.1	417.6	417.8	418.0
130°	435.9	435.3	434.8	434.3	434.8	435.3	435.9	436.4	436.9	437.2	437.6
132.5°	454.8	454.2	453.7	453.1	453.7	454.2	454.8	455.3	455.6	455.6	455.7
135°	481.0	480.3	479.6	479.0	479.6	480.3	481.0	481.6	482.0	482.2	482.4
137.5°	506.6	506.0	505.5	504.9	505.5	506.0	506.6	507.1	507.4	507.4	507.3
140°	522.2	521.5	520.9	520.2	520.9	521.5	522.2	522.8	523.1	522.8	522.6
142.5°	536.7	536.1	535.4	534.8	535.4	536.1	536.7	537.4	537.7	537.6	537.6
145°	558.0	557.4	556.7	556.0	556.7	557.4	558.0	558.7	559.0	558.9	558.8
147.5°	576.0	575.2	574.5	573.7	574.5	575.2	576.0	576.8	577.1	577.0	576.9
150°	587.7	586.8	585.9	585.0	585.9	586.8	587.7	588.6	588.8	588.7	588.4
152.5°	598.1	597.3	596.4	595.6	596.4	597.3	598.1	598.8	599.1	598.9	598.7
155°	612.3	611.4	610.5	609.6	610.5	611.4	612.3	613.1	613.4	613.0	612.8
157.5°	624.0	623.0	622.2	621.3	622.2	623.0	624.0	624.8	625.1	624.7	624.4
160°	631.4	630.5	629.6	628.8	629.6	630.5	631.4	632.2	632.5	632.1	631.6
162.5°	638.3	637.4	636.5	635.4	636.5	637.4	638.3	639.3	639.5	638.9	638.3
165°	647.1	646.3	645.4	644.5	645.4	646.3	647.1	648.0	648.1	647.5	646.8
167.5°	653.8	652.7	651.8	650.7	651.8	652.7	653.8	654.7	654.8	654.0	653.2
170°	657.3	656.3	655.3	654.4	655.3	656.3	657.3	658.2	658.3	657.5	656.6
172.5°	659.6	658.7	657.6	656.7	657.6	658.7	659.6	660.6	660.7	660.0	659.1
175°	662.7	661.7	660.7	659.7	660.7	661.7	662.7	663.7	663.7	662.8	661.9
177.5°	663.6	662.9	662.2	661.5	662.2	662.9	663.6	664.3	664.3	663.7	663.1
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	736.8	739.9	743.9	746.7	752.0	754.3	757.2	759.6	763.8	767.7	772.4
5°	687.2	692.8	700.3	708.4	717.9	724.4	733.7	739.2	750.3	760.4	770.3
7.5°	642.1	649.0	659.6	670.1	682.5	693.8	705.2	717.9	732.1	748.9	762.8
10°	611.3	620.4	631.9	645.0	660.0	673.1	688.5	702.2	719.5	739.2	757.5
12.5°	586.7	594.5	607.3	619.8	635.9	651.9	667.8	686.0	706.2	728.0	751.0
15°	552.8	559.3	569.7	587.1	603.5	619.1	643.0	660.0	685.5	709.7	737.5
17.5°	523.7	531.9	540.7	555.6	572.5	592.1	613.5	634.8	659.4	690.1	721.4
20°	506.0	512.6	522.6	534.1	552.1	571.7	592.0	613.5	643.7	675.4	709.1
22.5°	486.6	493.7	505.1	517.6	532.7	551.6	573.9	597.6	629.0	660.2	696.8
25°	463.8	468.7	479.1	490.3	505.3	521.3	544.6	570.8	601.8	637.5	674.8
27.5°	442.3	446.6	456.2	465.8	479.4	498.4	519.2	545.6	574.9	611.1	652.4
30°	426.8	431.4	439.9	450.4	463.5	480.2	501.4	526.2	557.7	593.0	636.2
32.5°	413.5	417.6	424.0	434.5	447.2	463.4	483.1	508.5	539.8	575.8	618.1
35°	392.8	397.4	402.3	410.4	421.6	437.3	458.9	482.8	512.8	547.5	586.4
37.5°	372.3	377.2	381.6	388.9	399.1	412.9	431.6	456.5	483.7	517.1	554.5
40°	359.5	363.3	367.0	374.8	385.0	398.0	415.3	437.6	466.4	497.5	528.6
42.5°	346.6	350.3	353.4	360.2	369.5	382.1	398.6	420.3	447.0	476.0	503.4
45°	326.4	328.7	332.3	338.2	345.7	357.1	373.2	392.5	415.1	442.6	463.1
47.5°	304.5	308.2	311.1	316.2	322.4	333.6	349.0	365.5	386.0	406.4	420.9
50°	287.8	291.4	295.7	300.6	306.4	316.9	331.0	347.7	365.0	380.7	393.1
52.5°	272.2	275.4	280.0	284.6	291.8	300.7	312.7	327.5	344.6	355.9	366.2
55°	248.9	250.6	255.8	260.4	267.3	273.8	285.9	298.9	309.4	317.9	326.4
57.5°	225.2	227.4	230.4	234.5	241.3	249.0	257.4	269.1	275.2	279.6	286.2
60°	210.0	210.6	212.6	217.5	222.7	229.6	239.4	247.6	252.2	255.8	261.3
62.5°	193.2	193.4	196.7	200.3	204.1	211.5	219.6	226.1	230.0	231.7	237.0
65°	169.8	169.1	171.1	174.0	178.6	183.5	190.4	196.2	195.9	197.9	201.1
67.5°	145.8	145.1	145.1	147.9	151.6	156.0	160.7	164.1	164.2	166.8	168.4
70°	129.5	127.6	128.9	131.1	132.8	136.4	141.6	142.9	143.3	144.6	146.2
72.5°	112.8	112.1	113.1	114.2	115.3	118.0	122.5	123.3	123.4	124.2	126.8
75°	89.6	88.9	88.3	89.3	90.6	92.6	94.2	95.5	95.1	95.5	97.5
77.5°	67.2	65.3	65.0	65.5	65.9	67.1	68.8	68.6	69.0	68.9	71.1
80°	53.3	50.7	50.4	50.4	50.7	51.3	52.0	52.7	51.7	52.7	53.3
82.5°	39.2	37.6	37.5	37.3	37.4	37.5	37.9	38.2	38.1	38.5	38.9
85°	21.6	20.9	20.0	20.6	20.3	19.3	20.0	18.9	18.7	18.9	19.3
87.5°	9.0	9.1	8.5	8.4	7.9	8.0	7.3	6.9	6.5	6.5	7.1
90°	8.4	7.8	7.1	6.4	5.6	4.8	4.0	3.1	2.2	1.4	0.5
92.5°	8.4	7.8	7.1	6.5	5.9	5.2	5.1	5.8	6.4	7.0	7.6
95°	8.4	7.8	12.0	16.2	20.3	24.5	26.7	27.0	27.4	27.6	28.0
97.5°	21.1	24.2	32.4	40.6	48.8	57.0	60.8	60.2	59.7	59.1	58.5
100°	69.2	85.5	85.1	84.6	84.2	83.7	83.3	83.0	82.7	82.4	82.1
102.5°	106.0	109.1	108.8	108.6	108.2	108.0	107.6	107.3	106.9	106.4	106.0
105°	146.4	146.4	146.4	146.4	146.4	146.4	146.2	145.8	145.3	144.8	144.4
107.5°	185.3	185.3	185.1	184.9	184.6	184.4	184.3	184.3	184.3	184.3	184.3
110°	210.9	211.2	211.0	210.8	210.6	210.3	210.3	210.3	210.3	210.3	210.3



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	236.0	236.3	236.3	236.1	236.0	235.8	235.7	235.4	235.1	234.9	234.6
115°	273.7	274.1	274.0	273.9	273.8	273.7	273.4	272.8	272.2	271.7	271.1
117.5°	310.2	310.7	310.3	310.0	309.5	309.1	308.9	308.9	308.9	308.9	309.0
120°	333.3	333.6	333.2	332.9	332.6	332.3	332.1	332.3	332.3	332.4	332.6
122.5°	355.8	355.9	355.8	355.7	355.5	355.3	355.1	354.6	354.2	353.8	353.4
125°	388.7	389.1	389.1	389.1	389.1	389.1	388.7	387.9	387.1	386.4	385.6
127.5°	418.3	418.5	418.6	418.7	418.7	418.8	418.5	418.0	417.5	416.9	416.4
130°	437.8	438.2	438.1	438.0	437.8	437.7	437.4	436.9	436.4	435.8	435.2
132.5°	455.8	455.9	456.1	456.3	456.6	456.8	456.6	456.0	455.4	454.7	454.1
135°	482.7	482.8	483.1	483.3	483.5	483.8	483.5	482.8	482.2	481.6	481.0
137.5°	507.3	507.2	507.5	507.6	507.8	508.1	507.8	507.3	506.7	506.2	505.6
140°	522.4	522.2	522.3	522.4	522.5	522.6	522.5	522.4	522.1	521.9	521.7
142.5°	537.5	537.5	537.4	537.2	537.1	536.9	536.7	536.7	536.5	536.4	536.2
145°	558.6	558.5	558.5	558.5	558.5	558.5	558.4	558.2	558.0	557.8	557.6
147.5°	576.8	576.6	576.4	576.4	576.2	576.1	576.0	576.1	576.1	576.2	576.2
150°	588.2	588.0	587.8	587.5	587.4	587.1	587.1	587.4	587.5	587.8	588.0
152.5°	598.5	598.2	598.0	597.8	597.5	597.4	597.4	598.0	598.5	598.9	599.4
155°	612.4	612.1	611.8	611.7	611.4	611.2	611.4	612.1	612.8	613.4	614.1
157.5°	624.1	623.7	623.6	623.6	623.6	623.6	623.8	624.1	624.6	624.9	625.3
160°	631.2	630.8	630.6	630.5	630.4	630.3	630.6	631.2	631.9	632.6	633.2
162.5°	637.7	637.1	636.9	636.8	636.7	636.6	636.9	637.5	638.2	638.9	639.5
165°	646.1	645.5	645.4	645.2	645.1	645.1	645.3	646.0	646.6	647.3	647.9
167.5°	652.5	651.7	651.5	651.4	651.3	651.3	651.5	652.2	652.9	653.6	654.2
170°	655.7	654.8	654.7	654.6	654.4	654.4	654.7	655.5	656.3	657.0	657.8
172.5°	658.3	657.5	657.4	657.2	656.9	656.8	657.0	657.8	658.6	659.4	660.1
175°	661.1	660.2	660.1	660.0	659.9	659.8	660.0	660.7	661.3	662.0	662.7
177.5°	662.5	661.9	661.8	661.7	661.6	661.5	661.8	662.3	662.8	663.3	663.8
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	774.8	778.4	780.8	785.2	788.9	791.0	792.8	794.4	796.3	797.8	802.3
5°	779.7	788.2	795.5	806.6	816.7	824.6	833.0	840.6	846.8	855.7	862.5
7.5°	777.6	792.7	808.6	825.7	843.3	859.7	874.7	888.8	901.6	917.0	930.5
10°	775.5	796.1	816.4	839.6	863.5	883.7	902.8	922.0	936.1	955.7	972.4
12.5°	774.0	798.2	822.7	850.6	876.8	905.4	930.7	944.8	966.2	981.9	1001.7
15°	767.3	799.4	833.0	864.4	901.7	928.2	950.5	977.9	997.9	1017.9	1039.4
17.5°	755.4	791.8	829.5	870.6	906.4	934.9	963.5	990.0	1013.8	1040.5	1067.5
20°	750.0	786.3	829.5	871.7	906.6	936.4	965.9	995.0	1021.1	1055.5	1086.5
22.5°	738.5	782.4	822.2	863.2	899.3	931.7	965.1	998.1	1032.9	1071.7	1110.6
25°	717.9	762.4	804.6	845.2	881.5	922.0	957.7	1001.9	1046.3	1097.7	1146.1
27.5°	696.6	739.2	777.8	817.0	859.4	905.3	951.5	1001.6	1059.9	1124.6	1193.0
30°	679.3	719.5	757.2	797.4	841.5	893.2	943.9	1003.5	1070.8	1143.8	1224.9
32.5°	659.2	696.3	732.9	775.4	823.5	878.0	937.1	1002.4	1083.4	1166.3	1249.7
35°	624.7	655.8	693.4	738.8	793.2	855.7	924.0	1001.2	1094.1	1189.2	1259.6
37.5°	583.8	612.8	652.4	702.2	759.1	826.2	907.3	998.8	1097.5	1173.4	1196.1
40°	556.4	583.2	624.4	676.1	734.3	805.3	894.2	991.0	1086.5	1135.0	1116.3
42.5°	527.0	555.2	595.4	646.5	709.1	786.4	877.7	974.6	1054.6	1072.9	1008.5
45°	480.8	509.9	549.5	601.2	668.6	752.3	847.5	935.4	981.5	948.5	848.8
47.5°	437.8	465.1	501.8	555.1	624.7	711.3	802.9	873.1	876.8	797.9	691.4
50°	408.5	433.7	470.6	524.0	593.0	680.6	763.4	818.6	793.8	704.6	602.2
52.5°	379.7	404.4	440.8	493.6	561.9	642.1	719.2	757.9	711.1	619.5	532.0
55°	338.2	359.8	395.5	444.2	508.9	583.5	648.9	662.3	601.5	511.2	440.2
57.5°	297.6	317.8	350.3	395.1	454.3	520.4	571.5	568.7	504.4	426.9	370.6
60°	270.2	289.8	318.6	362.4	416.4	473.3	517.1	506.6	442.9	376.2	328.7
62.5°	245.6	263.1	290.3	328.6	377.9	430.6	466.6	451.2	388.7	330.4	292.8
65°	209.3	224.0	247.3	280.0	320.9	364.4	392.2	372.2	318.9	273.5	243.3
67.5°	174.7	186.5	206.0	232.1	267.0	301.9	318.8	298.8	256.1	222.9	200.6
70°	152.7	163.2	178.2	201.5	231.9	261.3	274.1	256.1	219.5	191.0	175.0
72.5°	130.8	139.4	152.7	173.5	197.9	223.4	234.5	217.4	187.3	163.2	148.3
75°	101.1	106.9	116.1	130.5	149.8	170.0	176.3	161.3	142.0	124.0	114.2
77.5°	72.3	77.3	84.3	93.3	107.0	119.9	125.4	116.7	101.7	90.3	82.3
80°	55.6	58.2	64.1	71.6	82.4	90.6	94.2	88.6	78.2	69.7	63.5
82.5°	39.6	42.3	45.8	52.0	58.9	64.4	68.3	64.6	57.0	50.3	46.7
85°	19.3	20.9	22.9	25.5	30.7	34.0	33.7	31.4	28.4	25.8	23.8
87.5°	7.1	7.5	8.4	10.0	10.9	12.1	12.7	12.4	11.5	10.8	10.2
90°	1.4	2.2	3.1	4.0	4.8	5.6	6.4	7.1	7.8	8.4	9.0
92.5°	7.0	6.4	5.8	5.1	5.2	5.9	6.5	7.1	7.8	8.4	9.0
95°	27.6	27.4	27.0	26.7	24.5	20.3	16.2	12.0	7.8	8.4	9.0
97.5°	59.1	59.7	60.2	60.8	57.0	48.8	40.6	32.4	24.2	21.1	18.0
100°	82.4	82.7	83.0	83.3	83.7	84.2	84.6	85.1	85.5	69.2	53.0
102.5°	106.4	106.9	107.3	107.6	108.0	108.2	108.6	108.8	109.1	106.0	102.9
105°	144.8	145.3	145.8	146.2	146.4	146.4	146.4	146.4	146.4	146.4	146.4
107.5°	184.3	184.3	184.3	184.3	184.4	184.6	184.9	185.1	185.3	185.3	185.4
110°	210.3	210.3	210.3	210.3	210.3	210.6	210.8	211.0	211.2	210.9	210.6



TEST NUMBER: P333169-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	234.9	235.1	235.4	235.7	235.8	236.0	236.1	236.3	236.3	236.0	235.6
115°	271.7	272.2	272.8	273.4	273.7	273.8	273.9	274.0	274.1	273.7	273.2
117.5°	308.9	308.9	308.9	308.9	309.1	309.5	310.0	310.3	310.7	310.2	309.6
120°	332.4	332.3	332.3	332.1	332.3	332.6	332.9	333.2	333.6	333.3	333.1
122.5°	353.8	354.2	354.6	355.1	355.3	355.5	355.7	355.8	355.9	355.8	355.5
125°	386.4	387.1	387.9	388.7	389.1	389.1	389.1	389.1	389.1	388.7	388.2
127.5°	416.9	417.5	418.0	418.5	418.8	418.7	418.7	418.6	418.5	418.3	418.0
130°	435.8	436.4	436.9	437.4	437.7	437.8	438.0	438.1	438.2	437.8	437.6
132.5°	454.7	455.4	456.0	456.6	456.8	456.6	456.3	456.1	455.9	455.8	455.7
135°	481.6	482.2	482.8	483.5	483.8	483.5	483.3	483.1	482.8	482.7	482.4
137.5°	506.2	506.7	507.3	507.8	508.1	507.8	507.6	507.5	507.2	507.3	507.3
140°	521.9	522.1	522.4	522.5	522.6	522.5	522.4	522.3	522.2	522.4	522.6
142.5°	536.4	536.5	536.7	536.7	536.9	537.1	537.2	537.4	537.5	537.5	537.6
145°	557.8	558.0	558.2	558.4	558.5	558.5	558.5	558.5	558.5	558.6	558.8
147.5°	576.2	576.1	576.1	576.0	576.1	576.2	576.4	576.4	576.6	576.8	576.9
150°	587.8	587.5	587.4	587.1	587.1	587.4	587.5	587.8	588.0	588.2	588.4
152.5°	598.9	598.5	598.0	597.4	597.4	597.5	597.8	598.0	598.2	598.5	598.7
155°	613.4	612.8	612.1	611.4	611.2	611.4	611.7	611.8	612.1	612.4	612.8
157.5°	624.9	624.6	624.1	623.8	623.6	623.6	623.6	623.6	623.7	624.1	624.4
160°	632.6	631.9	631.2	630.6	630.3	630.4	630.5	630.6	630.8	631.2	631.6
162.5°	638.9	638.2	637.5	636.9	636.6	636.7	636.8	636.9	637.1	637.7	638.3
165°	647.3	646.6	646.0	645.3	645.1	645.1	645.2	645.4	645.5	646.1	646.8
167.5°	653.6	652.9	652.2	651.5	651.3	651.3	651.4	651.5	651.7	652.5	653.2
170°	657.0	656.3	655.5	654.7	654.4	654.4	654.6	654.7	654.8	655.7	656.6
172.5°	659.4	658.6	657.8	657.0	656.8	656.9	657.2	657.4	657.5	658.3	659.1
175°	662.0	661.3	660.7	660.0	659.8	659.9	660.0	660.1	660.2	661.1	661.9
177.5°	663.3	662.8	662.3	661.8	661.5	661.6	661.7	661.8	661.9	662.5	663.1
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7	662.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	805.9	808.0	812.4	810.9	813.0	814.0	815.1
5°	871.0	881.5	886.1	885.4	892.3	890.6	889.0
7.5°	944.5	955.5	961.7	969.3	973.8	974.0	977.9
10°	986.1	1000.5	1006.4	1014.6	1019.9	1022.8	1022.4
12.5°	1018.0	1029.3	1042.5	1046.5	1053.6	1057.3	1055.9
15°	1056.4	1074.4	1088.1	1095.0	1103.9	1106.5	1110.1
17.5°	1090.7	1114.8	1130.9	1152.2	1160.3	1165.2	1162.3
20°	1116.6	1148.3	1164.4	1189.9	1203.9	1211.5	1208.8
22.5°	1147.3	1181.6	1211.3	1233.3	1254.7	1264.9	1267.0
25°	1199.7	1246.8	1290.3	1319.4	1345.9	1352.1	1365.9
27.5°	1258.4	1313.9	1360.4	1390.9	1409.5	1416.3	1420.6
30°	1295.2	1350.5	1385.5	1405.1	1411.0	1410.3	1409.7
32.5°	1313.3	1347.9	1354.6	1349.1	1335.7	1324.2	1312.3
35°	1287.7	1261.9	1223.2	1173.5	1137.0	1099.9	1096.3
37.5°	1158.1	1075.5	1011.2	939.5	898.1	872.5	854.8
40°	1036.1	942.3	864.4	803.9	761.7	745.1	728.8
42.5°	903.8	814.1	745.1	694.6	662.9	644.4	631.4
45°	734.3	655.1	601.2	564.6	539.3	525.0	516.8
47.5°	601.7	543.1	497.3	470.9	453.5	442.3	442.3
50°	530.5	474.6	444.2	423.3	408.2	399.3	401.0
52.5°	467.4	425.7	399.7	382.1	371.0	365.6	365.4
55°	390.9	360.8	343.8	331.0	323.5	317.3	318.6
57.5°	334.3	308.9	297.6	287.0	281.7	279.2	275.7
60°	299.3	279.7	269.8	261.3	256.1	254.2	250.6
62.5°	268.1	252.7	243.1	236.2	231.5	230.8	228.0
65°	225.3	213.6	205.1	201.8	196.9	195.6	195.6
67.5°	185.8	177.4	170.7	167.7	165.6	165.9	164.3
70°	160.9	154.0	149.8	146.5	144.9	145.3	143.9
72.5°	140.8	133.1	129.4	127.4	125.3	126.1	125.6
75°	106.6	102.7	100.7	98.8	97.5	96.8	96.2
77.5°	78.3	74.8	73.4	72.2	72.4	70.9	72.1
80°	60.5	57.6	56.6	54.9	54.6	54.6	54.3
82.5°	44.3	42.6	41.9	40.6	40.0	40.5	39.6
85°	22.9	21.6	21.3	21.3	20.6	20.0	21.6
87.5°	10.2	9.3	9.4	9.2	9.3	9.1	8.6
90°	9.5	10.1	10.5	10.8	11.1	11.5	11.8
92.5°	9.5	10.1	10.4	10.5	10.7	10.8	11.0
95°	9.5	10.1	10.3	10.3	10.3	10.3	10.3
97.5°	14.9	11.9	10.3	10.3	10.3	10.3	10.3
100°	36.7	20.4	12.1	11.6	11.2	10.8	10.3
102.5°	99.8	96.8	91.5	84.0	76.6	69.2	61.8
105°	146.4	146.4	146.4	146.2	146.1	146.0	145.9
107.5°	185.4	185.4	185.2	184.9	184.6	184.3	183.9
110°	210.3	209.9	209.8	209.9	210.0	210.2	210.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	235.1	234.7	234.5	234.3	234.1	234.0	233.8
115°	272.8	272.3	271.8	271.1	270.5	269.8	269.2
117.5°	309.0	308.5	308.1	307.8	307.5	307.2	306.9
120°	332.9	332.7	332.3	331.7	331.2	330.6	330.1
122.5°	355.3	355.1	354.6	354.0	353.4	352.8	352.1
125°	387.7	387.3	386.9	386.6	386.2	386.0	385.6
127.5°	417.8	417.6	417.1	416.2	415.4	414.7	413.8
130°	437.2	436.9	436.4	435.9	435.3	434.8	434.3
132.5°	455.6	455.6	455.3	454.8	454.2	453.7	453.1
135°	482.2	482.0	481.6	481.0	480.3	479.6	479.0
137.5°	507.4	507.4	507.1	506.6	506.0	505.5	504.9
140°	522.8	523.1	522.8	522.2	521.5	520.9	520.2
142.5°	537.6	537.7	537.4	536.7	536.1	535.4	534.8
145°	558.9	559.0	558.7	558.0	557.4	556.7	556.0
147.5°	577.0	577.1	576.8	576.0	575.2	574.5	573.7
150°	588.7	588.8	588.6	587.7	586.8	585.9	585.0
152.5°	598.9	599.1	598.8	598.1	597.3	596.4	595.6
155°	613.0	613.4	613.1	612.3	611.4	610.5	609.6
157.5°	624.7	625.1	624.8	624.0	623.0	622.2	621.3
160°	632.1	632.5	632.2	631.4	630.5	629.6	628.8
162.5°	638.9	639.5	639.3	638.3	637.4	636.5	635.4
165°	647.5	648.1	648.0	647.1	646.3	645.4	644.5
167.5°	654.0	654.8	654.7	653.8	652.7	651.8	650.7
170°	657.5	658.3	658.2	657.3	656.3	655.3	654.4
172.5°	660.0	660.7	660.6	659.6	658.7	657.6	656.7
175°	662.8	663.7	663.7	662.7	661.7	660.7	659.7
177.5°	663.7	664.3	664.3	663.6	662.9	662.2	661.5
180°	662.7	662.7	662.7	662.7	662.7	662.7	662.7

(END OF REPORT)