

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: P333171-935

Luminaire Tested: **S125DIP-S610D590U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333171-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
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-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4002.7 lumens
Efficiency: N/A
Efficacy: 122.0 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

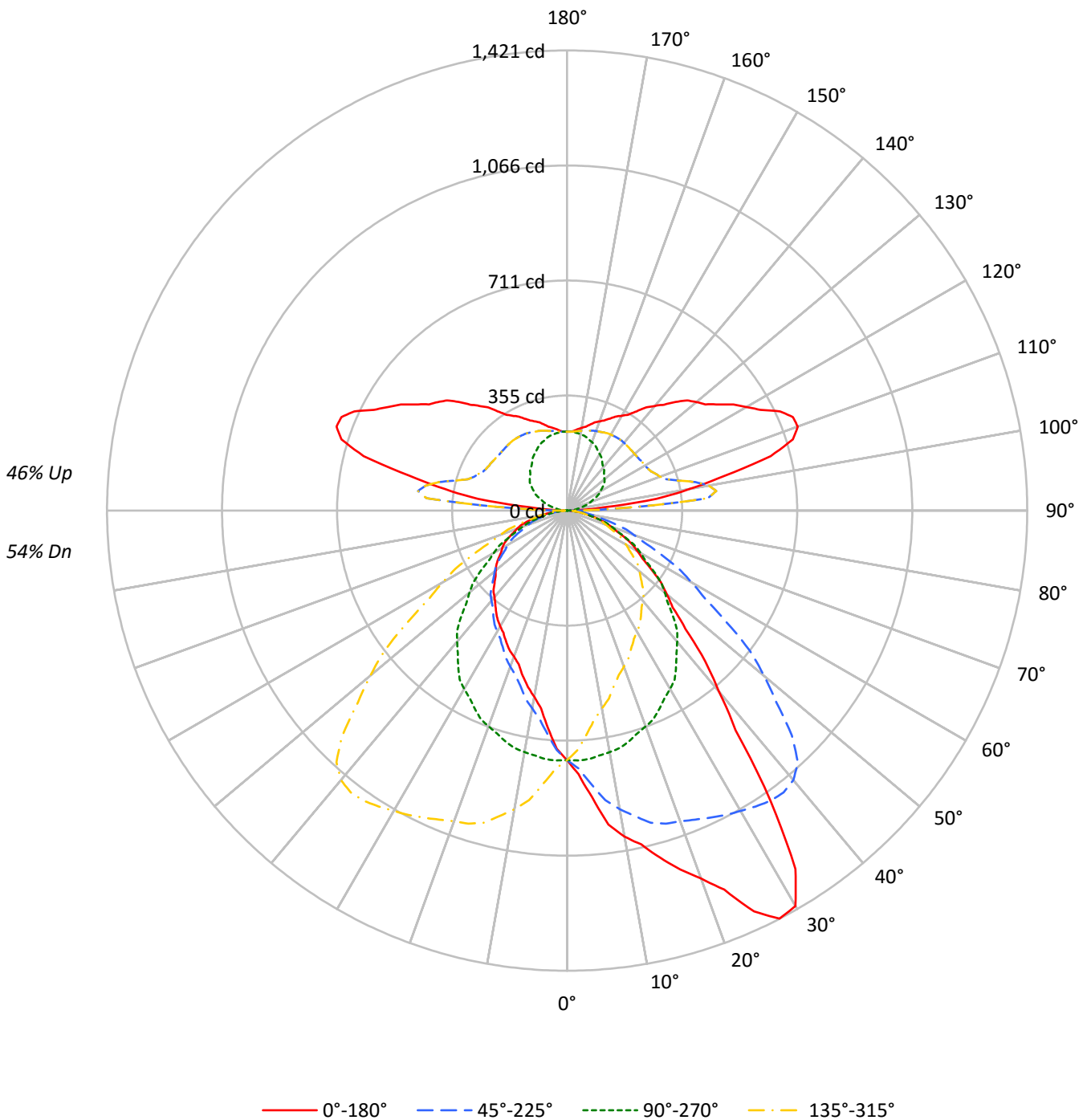
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	43	42	40	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	31	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	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	1.9
10°-20°	220.9	5.5
20°-30°	358.6	9.0
30°-40°	437.5	10.9
40°-50°	398.0	9.9
50°-60°	317.0	7.9
60°-70°	220.8	5.5
70°-80°	117.7	2.9
80°-90°	31.1	0.8
90°-100°	176.6	4.4
100°-110°	379.6	9.5
110°-120°	356.2	8.9
120°-130°	288.7	7.2
130°-140°	231.7	5.8
140°-150°	174.8	4.4
150°-160°	123.1	3.1
160°-170°	72.5	1.8
170°-180°	23.6	0.6
0°-30°	653.7	16.3
0°-40°	1091.2	27.3
0°-60°	1806.2	45.1
0°-90°	2175.8	54.4
90°-120°	912.4	22.8
90°-150°	1607.6	40.2
90°-180°	1827.0	45.6
0°-180°	4002.7	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°	11	0	11	0	11	9
95°	116	16	116	16	116	164
105°	651	56	651	56	651	647
115°	725	99	725	99	725	708
125°	571	138	571	138	571	517
135°	474	161	474	161	474	368
145°	374	188	374	188	374	238
155°	314	214	314	214	314	146
165°	275	234	275	234	275	79
175°	247	243	247	243	247	24
180°	244	244	244	244	244	



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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°	8.5	9.0	9.2	9.2	9.5	9.3	10.2	10.2	10.8	11.5	12.4
90°	11.3	11.3	10.8	10.8	10.8	9.8	9.3	8.9	8.4	7.8	6.9
92.5°	31.3	32.1	32.8	34.0	40.3	47.5	63.2	87.0	128.2	158.3	160.9
95°	115.5	123.3	127.2	142.0	176.8	218.1	278.4	353.1	425.9	435.1	355.1
97.5°	279.0	285.2	299.5	327.0	357.3	414.7	473.6	525.9	538.8	464.7	317.1
100°	383.1	391.0	409.1	444.4	478.4	529.4	580.1	604.1	566.3	443.5	282.9
102.5°	499.4	505.3	525.0	550.2	586.4	621.0	645.2	630.4	549.7	406.1	256.9
105°	650.7	656.7	666.5	682.7	698.4	703.8	682.2	614.9	497.1	356.1	231.8
107.5°	731.1	735.0	738.3	738.4	730.4	704.8	649.3	559.5	443.2	321.6	221.2
110°	757.9	757.9	754.4	745.0	723.0	681.2	612.0	518.7	412.6	305.5	218.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	754.7	751.1	742.6	726.6	694.3	645.1	575.1	486.5	389.8	296.1	218.1
115°	725.0	718.5	704.8	681.2	642.9	589.4	522.1	445.9	364.9	285.9	219.6
117.5°	672.8	668.8	655.2	630.9	592.5	543.4	485.4	419.8	350.1	280.9	222.7
120°	638.9	635.1	621.8	598.2	561.9	518.7	464.6	405.7	341.8	278.4	225.9
122.5°	609.1	605.5	592.3	570.7	538.3	497.8	449.7	395.1	334.8	276.6	228.7
125°	571.2	566.3	555.5	535.4	507.8	472.5	429.7	379.6	325.1	274.1	233.3
127.5°	538.8	536.6	526.4	508.6	483.7	450.6	410.7	363.9	316.3	272.9	238.5
130°	521.1	518.1	508.3	492.1	467.5	435.7	397.4	354.1	310.4	272.1	241.7
132.5°	503.4	500.1	491.0	474.8	450.3	419.6	384.8	344.3	305.7	272.1	245.2
135°	474.4	471.5	462.6	446.4	424.8	396.8	365.4	331.5	300.1	272.1	249.9
137.5°	443.5	440.2	432.1	417.3	398.0	374.3	348.1	320.7	295.1	272.7	254.4
140°	421.9	419.4	412.1	399.3	381.2	360.5	337.9	314.8	292.7	273.1	256.4
142.5°	401.8	399.8	392.8	382.0	366.6	348.7	329.2	309.7	290.8	273.5	257.5
145°	374.3	372.3	366.9	358.5	346.7	333.5	318.2	303.1	287.8	273.1	258.8
147.5°	350.9	350.0	346.8	340.2	330.8	320.8	309.1	296.8	284.7	271.8	259.3
150°	337.9	337.4	335.4	329.6	322.2	313.3	304.0	293.2	282.4	270.6	259.3
152.5°	327.7	327.2	325.2	320.6	314.4	307.5	298.9	289.3	279.7	269.1	258.9
155°	313.8	313.3	311.9	308.4	303.5	298.1	291.3	283.4	275.0	266.2	257.9
157.5°	301.4	301.5	300.1	297.3	293.5	289.3	284.0	277.5	270.7	263.2	256.6
160°	293.2	293.7	292.7	290.2	286.8	283.4	278.4	273.5	267.2	261.3	255.4
162.5°	285.8	285.9	285.7	283.6	280.9	277.8	273.8	269.2	264.1	258.9	254.3
165°	275.0	275.0	275.0	274.1	272.1	269.7	266.7	263.2	259.3	255.4	252.4
167.5°	265.2	265.3	265.7	264.8	263.8	262.1	259.8	257.5	254.7	251.9	249.7
170°	259.3	259.8	259.8	259.3	258.3	257.4	255.9	254.4	251.9	249.9	248.5
172.5°	253.8	254.3	255.1	254.3	254.0	253.4	252.4	250.9	249.2	247.6	246.9
175°	247.0	247.5	248.5	248.1	248.1	248.1	247.0	247.0	245.6	245.0	245.0
177.5°	243.6	243.6	244.8	244.4	244.8	244.8	244.8	244.4	244.0	243.6	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



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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°	12.8	12.1	10.9	9.9	8.4	7.5	7.0	7.1	6.5	6.4	6.9
90°	6.4	5.4	4.9	4.0	2.9	2.0	0.9	0.5	0.9	2.0	2.9
92.5°	112.1	67.1	40.3	25.9	17.5	11.4	7.2	6.0	7.2	11.4	17.5
95°	219.6	111.5	59.0	36.9	26.0	20.7	16.7	16.2	16.7	20.7	26.0
97.5°	175.2	96.1	61.3	45.4	35.6	30.2	27.5	26.9	27.5	30.2	35.6
100°	159.1	95.3	66.8	52.1	42.7	37.4	35.4	34.4	35.4	37.4	42.7
102.5°	152.5	98.8	73.4	59.2	50.6	44.8	43.2	42.6	43.2	44.8	50.6
105°	149.8	106.1	84.5	70.7	62.9	57.9	55.5	55.5	55.5	57.9	62.9
107.5°	154.3	116.9	96.0	83.6	75.4	71.4	69.1	68.1	69.1	71.4	75.4
110°	158.6	124.8	104.6	91.9	84.5	80.1	78.1	77.1	78.1	80.1	84.5



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.1	132.2	112.9	100.5	93.2	88.7	87.1	86.2	87.1	88.7	93.2
115°	172.4	143.9	125.7	113.5	106.1	101.7	100.2	99.2	100.2	101.7	106.1
117.5°	181.8	155.9	138.7	126.8	118.5	114.1	112.4	111.0	112.4	114.1	118.5
120°	188.1	164.5	147.3	135.1	126.7	122.3	120.4	118.8	120.4	122.3	126.7
122.5°	195.2	172.8	155.6	143.4	134.1	129.8	128.2	127.1	128.2	129.8	134.1
125°	204.8	183.7	167.5	154.7	145.3	140.9	138.5	137.5	138.5	140.9	145.3
127.5°	213.6	194.2	178.6	165.8	155.9	150.3	147.1	145.7	147.1	150.3	155.9
130°	219.6	200.9	185.6	172.9	162.6	156.2	152.2	150.8	152.2	156.2	162.6
132.5°	224.6	207.2	191.9	179.2	168.5	161.3	156.6	154.7	156.6	161.3	168.5
135°	231.8	215.6	200.4	187.1	176.8	168.9	163.1	161.1	163.1	168.9	176.8
137.5°	237.1	221.6	207.8	194.1	184.0	176.2	170.7	169.2	170.7	176.2	184.0
140°	240.6	225.9	211.7	198.5	189.1	181.2	175.3	173.8	175.3	181.2	189.1
142.5°	242.6	228.7	215.2	202.8	193.8	186.0	180.5	179.3	180.5	186.0	193.8
145°	245.6	233.3	220.5	209.2	200.4	193.5	188.6	187.6	188.6	193.5	200.4
147.5°	247.4	236.3	225.1	215.1	207.4	201.0	196.8	196.2	196.8	201.0	207.4
150°	248.5	238.2	227.4	219.0	212.2	205.8	202.3	201.4	202.3	205.8	212.2
152.5°	249.3	240.1	230.1	222.6	216.1	210.5	207.4	206.9	207.4	210.5	216.1
155°	249.9	242.1	233.8	226.9	222.0	217.1	214.1	214.1	214.1	217.1	222.0
157.5°	250.5	243.8	236.6	231.4	227.1	222.9	220.5	220.6	220.5	222.9	227.1
160°	250.5	244.6	238.2	233.8	229.9	226.4	224.5	225.0	224.5	226.4	229.9
162.5°	250.1	245.4	239.8	236.2	233.0	230.0	228.0	228.5	228.0	230.0	233.0
165°	249.5	245.6	241.7	238.7	236.7	234.3	232.8	233.8	232.8	234.3	236.7
167.5°	248.3	245.6	242.3	240.5	239.1	237.7	236.9	237.3	236.9	237.7	239.1
170°	247.5	245.6	243.1	241.7	240.6	239.7	239.2	239.7	239.2	239.7	240.6
172.5°	246.8	245.2	243.1	242.5	241.9	240.8	240.4	241.3	240.4	240.8	241.9
175°	245.6	244.6	243.1	243.1	243.1	242.6	242.1	243.1	242.1	242.6	243.1
177.5°	244.4	244.0	243.2	243.2	243.6	243.2	243.2	244.0	243.2	243.2	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

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	8.4	9.1	9.0	10.2	10.8	11.4	11.3
90°	4.0	4.9	5.4	6.4	6.9	7.8	8.4	8.9	9.3	9.8	10.8
92.5°	25.9	40.3	67.1	112.1	160.9	158.3	128.2	87.0	63.2	47.5	40.3
95°	36.9	59.0	111.5	219.6	355.1	435.1	425.9	353.1	278.4	218.1	176.8
97.5°	45.4	61.3	96.1	175.2	317.1	464.7	538.8	525.9	473.6	414.7	357.3
100°	52.1	66.8	95.3	159.1	282.9	443.5	566.3	604.1	580.1	529.4	478.4
102.5°	59.2	73.4	98.8	152.5	256.9	406.1	549.7	630.4	645.2	621.0	586.4
105°	70.7	84.5	106.1	149.8	231.8	356.1	497.1	614.9	682.2	703.8	698.4
107.5°	83.6	96.0	116.9	154.3	221.2	321.6	443.2	559.5	649.3	704.8	730.4
110°	91.9	104.6	124.8	158.6	218.1	305.5	412.6	518.7	612.0	681.2	723.0



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	100.5	112.9	132.2	164.1	218.1	296.1	389.8	486.5	575.1	645.1	694.3
115°	113.5	125.7	143.9	172.4	219.6	285.9	364.9	445.9	522.1	589.4	642.9
117.5°	126.8	138.7	155.9	181.8	222.7	280.9	350.1	419.8	485.4	543.4	592.5
120°	135.1	147.3	164.5	188.1	225.9	278.4	341.8	405.7	464.6	518.7	561.9
122.5°	143.4	155.6	172.8	195.2	228.7	276.6	334.8	395.1	449.7	497.8	538.3
125°	154.7	167.5	183.7	204.8	233.3	274.1	325.1	379.6	429.7	472.5	507.8
127.5°	165.8	178.6	194.2	213.6	238.5	272.9	316.3	363.9	410.7	450.6	483.7
130°	172.9	185.6	200.9	219.6	241.7	272.1	310.4	354.1	397.4	435.7	467.5
132.5°	179.2	191.9	207.2	224.6	245.2	272.1	305.7	344.3	384.8	419.6	450.3
135°	187.1	200.4	215.6	231.8	249.9	272.1	300.1	331.5	365.4	396.8	424.8
137.5°	194.1	207.8	221.6	237.1	254.4	272.7	295.1	320.7	348.1	374.3	398.0
140°	198.5	211.7	225.9	240.6	256.4	273.1	292.7	314.8	337.9	360.5	381.2
142.5°	202.8	215.2	228.7	242.6	257.5	273.5	290.8	309.7	329.2	348.7	366.6
145°	209.2	220.5	233.3	245.6	258.8	273.1	287.8	303.1	318.2	333.5	346.7
147.5°	215.1	225.1	236.3	247.4	259.3	271.8	284.7	296.8	309.1	320.8	330.8
150°	219.0	227.4	238.2	248.5	259.3	270.6	282.4	293.2	304.0	313.3	322.2
152.5°	222.6	230.1	240.1	249.3	258.9	269.1	279.7	289.3	298.9	307.5	314.4
155°	226.9	233.8	242.1	249.9	257.9	266.2	275.0	283.4	291.3	298.1	303.5
157.5°	231.4	236.6	243.8	250.5	256.6	263.2	270.7	277.5	284.0	289.3	293.5
160°	233.8	238.2	244.6	250.5	255.4	261.3	267.2	273.5	278.4	283.4	286.8
162.5°	236.2	239.8	245.4	250.1	254.3	258.9	264.1	269.2	273.8	277.8	280.9
165°	238.7	241.7	245.6	249.5	252.4	255.4	259.3	263.2	266.7	269.7	272.1
167.5°	240.5	242.3	245.6	248.3	249.7	251.9	254.7	257.5	259.8	262.1	263.8
170°	241.7	243.1	245.6	247.5	248.5	249.9	251.9	254.4	255.9	257.4	258.3
172.5°	242.5	243.1	245.2	246.8	246.9	247.6	249.2	250.9	252.4	253.4	254.0
175°	243.1	243.1	244.6	245.6	245.0	245.0	245.6	247.0	247.0	248.1	248.1
177.5°	243.2	243.2	244.0	244.4	243.6	243.6	244.0	244.4	244.8	244.8	244.8
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

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	12.2	11.7	11.6	11.9	11.3	11.4	10.8	10.2
90°	10.8	10.8	11.3	11.3	11.3	10.8	10.8	10.8	9.8	9.3	8.9
92.5°	34.0	32.8	32.1	31.3	32.1	32.8	34.0	40.3	47.5	63.2	87.0
95°	142.0	127.2	123.3	115.5	123.3	127.2	142.0	176.8	218.1	278.4	353.1
97.5°	327.0	299.5	285.2	279.0	285.2	299.5	327.0	357.3	414.7	473.6	525.9
100°	444.4	409.1	391.0	383.1	391.0	409.1	444.4	478.4	529.4	580.1	604.1
102.5°	550.2	525.0	505.3	499.4	505.3	525.0	550.2	586.4	621.0	645.2	630.4
105°	682.7	666.5	656.7	650.7	656.7	666.5	682.7	698.4	703.8	682.2	614.9
107.5°	738.4	738.3	735.0	731.1	735.0	738.3	738.4	730.4	704.8	649.3	559.5
110°	745.0	754.4	757.9	757.9	757.9	754.4	745.0	723.0	681.2	612.0	518.7



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	726.6	742.6	751.1	754.7	751.1	742.6	726.6	694.3	645.1	575.1	486.5
115°	681.2	704.8	718.5	725.0	718.5	704.8	681.2	642.9	589.4	522.1	445.9
117.5°	630.9	655.2	668.8	672.8	668.8	655.2	630.9	592.5	543.4	485.4	419.8
120°	598.2	621.8	635.1	638.9	635.1	621.8	598.2	561.9	518.7	464.6	405.7
122.5°	570.7	592.3	605.5	609.1	605.5	592.3	570.7	538.3	497.8	449.7	395.1
125°	535.4	555.5	566.3	571.2	566.3	555.5	535.4	507.8	472.5	429.7	379.6
127.5°	508.6	526.4	536.6	538.8	536.6	526.4	508.6	483.7	450.6	410.7	363.9
130°	492.1	508.3	518.1	521.1	518.1	508.3	492.1	467.5	435.7	397.4	354.1
132.5°	474.8	491.0	500.1	503.4	500.1	491.0	474.8	450.3	419.6	384.8	344.3
135°	446.4	462.6	471.5	474.4	471.5	462.6	446.4	424.8	396.8	365.4	331.5
137.5°	417.3	432.1	440.2	443.5	440.2	432.1	417.3	398.0	374.3	348.1	320.7
140°	399.3	412.1	419.4	421.9	419.4	412.1	399.3	381.2	360.5	337.9	314.8
142.5°	382.0	392.8	399.8	401.8	399.8	392.8	382.0	366.6	348.7	329.2	309.7
145°	358.5	366.9	372.3	374.3	372.3	366.9	358.5	346.7	333.5	318.2	303.1
147.5°	340.2	346.8	350.0	350.9	350.0	346.8	340.2	330.8	320.8	309.1	296.8
150°	329.6	335.4	337.4	337.9	337.4	335.4	329.6	322.2	313.3	304.0	293.2
152.5°	320.6	325.2	327.2	327.7	327.2	325.2	320.6	314.4	307.5	298.9	289.3
155°	308.4	311.9	313.3	313.8	313.3	311.9	308.4	303.5	298.1	291.3	283.4
157.5°	297.3	300.1	301.5	301.4	301.5	300.1	297.3	293.5	289.3	284.0	277.5
160°	290.2	292.7	293.7	293.2	293.7	292.7	290.2	286.8	283.4	278.4	273.5
162.5°	283.6	285.7	285.9	285.8	285.9	285.7	283.6	280.9	277.8	273.8	269.2
165°	274.1	275.0	275.0	275.0	275.0	275.0	274.1	272.1	269.7	266.7	263.2
167.5°	264.8	265.7	265.3	265.2	265.3	265.7	264.8	263.8	262.1	259.8	257.5
170°	259.3	259.8	259.8	259.3	259.8	259.8	259.3	258.3	257.4	255.9	254.4
172.5°	254.3	255.1	254.3	253.8	254.3	255.1	254.3	254.0	253.4	252.4	250.9
175°	248.1	248.5	247.5	247.0	247.5	248.5	248.1	248.1	248.1	247.0	247.0
177.5°	244.4	244.8	243.6	243.6	243.6	244.8	244.4	244.8	244.8	244.8	244.4
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

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	8.4	8.4	7.9	8.0	7.3	6.9	6.4	6.5	7.1
90°	8.4	7.8	6.9	6.4	5.4	4.9	4.0	2.9	2.0	0.9	0.5
92.5°	128.2	158.3	160.9	112.1	67.1	40.3	25.9	17.5	11.4	7.2	6.0
95°	425.9	435.1	355.1	219.6	111.5	59.0	36.9	26.0	20.7	16.7	16.2
97.5°	538.8	464.7	317.1	175.2	96.1	61.3	45.4	35.6	30.2	27.5	26.9
100°	566.3	443.5	282.9	159.1	95.3	66.8	52.1	42.7	37.4	35.4	34.4
102.5°	549.7	406.1	256.9	152.5	98.8	73.4	59.2	50.6	44.8	43.2	42.6
105°	497.1	356.1	231.8	149.8	106.1	84.5	70.7	62.9	57.9	55.5	55.5
107.5°	443.2	321.6	221.2	154.3	116.9	96.0	83.6	75.4	71.4	69.1	68.1
110°	412.6	305.5	218.1	158.6	124.8	104.6	91.9	84.5	80.1	78.1	77.1



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	389.8	296.1	218.1	164.1	132.2	112.9	100.5	93.2	88.7	87.1	86.2
115°	364.9	285.9	219.6	172.4	143.9	125.7	113.5	106.1	101.7	100.2	99.2
117.5°	350.1	280.9	222.7	181.8	155.9	138.7	126.8	118.5	114.1	112.4	111.0
120°	341.8	278.4	225.9	188.1	164.5	147.3	135.1	126.7	122.3	120.4	118.8
122.5°	334.8	276.6	228.7	195.2	172.8	155.6	143.4	134.1	129.8	128.2	127.1
125°	325.1	274.1	233.3	204.8	183.7	167.5	154.7	145.3	140.9	138.5	137.5
127.5°	316.3	272.9	238.5	213.6	194.2	178.6	165.8	155.9	150.3	147.1	145.7
130°	310.4	272.1	241.7	219.6	200.9	185.6	172.9	162.6	156.2	152.2	150.8
132.5°	305.7	272.1	245.2	224.6	207.2	191.9	179.2	168.5	161.3	156.6	154.7
135°	300.1	272.1	249.9	231.8	215.6	200.4	187.1	176.8	168.9	163.1	161.1
137.5°	295.1	272.7	254.4	237.1	221.6	207.8	194.1	184.0	176.2	170.7	169.2
140°	292.7	273.1	256.4	240.6	225.9	211.7	198.5	189.1	181.2	175.3	173.8
142.5°	290.8	273.5	257.5	242.6	228.7	215.2	202.8	193.8	186.0	180.5	179.3
145°	287.8	273.1	258.8	245.6	233.3	220.5	209.2	200.4	193.5	188.6	187.6
147.5°	284.7	271.8	259.3	247.4	236.3	225.1	215.1	207.4	201.0	196.8	196.2
150°	282.4	270.6	259.3	248.5	238.2	227.4	219.0	212.2	205.8	202.3	201.4
152.5°	279.7	269.1	258.9	249.3	240.1	230.1	222.6	216.1	210.5	207.4	206.9
155°	275.0	266.2	257.9	249.9	242.1	233.8	226.9	222.0	217.1	214.1	214.1
157.5°	270.7	263.2	256.6	250.5	243.8	236.6	231.4	227.1	222.9	220.5	220.6
160°	267.2	261.3	255.4	250.5	244.6	238.2	233.8	229.9	226.4	224.5	225.0
162.5°	264.1	258.9	254.3	250.1	245.4	239.8	236.2	233.0	230.0	228.0	228.5
165°	259.3	255.4	252.4	249.5	245.6	241.7	238.7	236.7	234.3	232.8	233.8
167.5°	254.7	251.9	249.7	248.3	245.6	242.3	240.5	239.1	237.7	236.9	237.3
170°	251.9	249.9	248.5	247.5	245.6	243.1	241.7	240.6	239.7	239.2	239.7
172.5°	249.2	247.6	246.9	246.8	245.2	243.1	242.5	241.9	240.8	240.4	241.3
175°	245.6	245.0	245.0	245.6	244.6	243.1	243.1	243.1	242.6	242.1	243.1
177.5°	244.0	243.6	243.6	244.4	244.0	243.2	243.2	243.6	243.2	243.2	244.0
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

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°	7.0	7.5	8.4	9.9	10.9	12.1	12.8	12.4	11.5	10.8	10.2
90°	0.9	2.0	2.9	4.0	4.9	5.4	6.4	6.9	7.8	8.4	8.9
92.5°	7.2	11.4	17.5	25.9	40.3	67.1	112.1	160.9	158.3	128.2	87.0
95°	16.7	20.7	26.0	36.9	59.0	111.5	219.6	355.1	435.1	425.9	353.1
97.5°	27.5	30.2	35.6	45.4	61.3	96.1	175.2	317.1	464.7	538.8	525.9
100°	35.4	37.4	42.7	52.1	66.8	95.3	159.1	282.9	443.5	566.3	604.1
102.5°	43.2	44.8	50.6	59.2	73.4	98.8	152.5	256.9	406.1	549.7	630.4
105°	55.5	57.9	62.9	70.7	84.5	106.1	149.8	231.8	356.1	497.1	614.9
107.5°	69.1	71.4	75.4	83.6	96.0	116.9	154.3	221.2	321.6	443.2	559.5
110°	78.1	80.1	84.5	91.9	104.6	124.8	158.6	218.1	305.5	412.6	518.7



TEST NUMBER: P333171-935

CATALOG NUMBER: S125DIP-S610D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	87.1	88.7	93.2	100.5	112.9	132.2	164.1	218.1	296.1	389.8	486.5
115°	100.2	101.7	106.1	113.5	125.7	143.9	172.4	219.6	285.9	364.9	445.9
117.5°	112.4	114.1	118.5	126.8	138.7	155.9	181.8	222.7	280.9	350.1	419.8
120°	120.4	122.3	126.7	135.1	147.3	164.5	188.1	225.9	278.4	341.8	405.7
122.5°	128.2	129.8	134.1	143.4	155.6	172.8	195.2	228.7	276.6	334.8	395.1
125°	138.5	140.9	145.3	154.7	167.5	183.7	204.8	233.3	274.1	325.1	379.6
127.5°	147.1	150.3	155.9	165.8	178.6	194.2	213.6	238.5	272.9	316.3	363.9
130°	152.2	156.2	162.6	172.9	185.6	200.9	219.6	241.7	272.1	310.4	354.1
132.5°	156.6	161.3	168.5	179.2	191.9	207.2	224.6	245.2	272.1	305.7	344.3
135°	163.1	168.9	176.8	187.1	200.4	215.6	231.8	249.9	272.1	300.1	331.5
137.5°	170.7	176.2	184.0	194.1	207.8	221.6	237.1	254.4	272.7	295.1	320.7
140°	175.3	181.2	189.1	198.5	211.7	225.9	240.6	256.4	273.1	292.7	314.8
142.5°	180.5	186.0	193.8	202.8	215.2	228.7	242.6	257.5	273.5	290.8	309.7
145°	188.6	193.5	200.4	209.2	220.5	233.3	245.6	258.8	273.1	287.8	303.1
147.5°	196.8	201.0	207.4	215.1	225.1	236.3	247.4	259.3	271.8	284.7	296.8
150°	202.3	205.8	212.2	219.0	227.4	238.2	248.5	259.3	270.6	282.4	293.2
152.5°	207.4	210.5	216.1	222.6	230.1	240.1	249.3	258.9	269.1	279.7	289.3
155°	214.1	217.1	222.0	226.9	233.8	242.1	249.9	257.9	266.2	275.0	283.4
157.5°	220.5	222.9	227.1	231.4	236.6	243.8	250.5	256.6	263.2	270.7	277.5
160°	224.5	226.4	229.9	233.8	238.2	244.6	250.5	255.4	261.3	267.2	273.5
162.5°	228.0	230.0	233.0	236.2	239.8	245.4	250.1	254.3	258.9	264.1	269.2
165°	232.8	234.3	236.7	238.7	241.7	245.6	249.5	252.4	255.4	259.3	263.2
167.5°	236.9	237.7	239.1	240.5	242.3	245.6	248.3	249.7	251.9	254.7	257.5
170°	239.2	239.7	240.6	241.7	243.1	245.6	247.5	248.5	249.9	251.9	254.4
172.5°	240.4	240.8	241.9	242.5	243.1	245.2	246.8	246.9	247.6	249.2	250.9
175°	242.1	242.6	243.1	243.1	243.1	244.6	245.6	245.0	245.0	245.6	247.0
177.5°	243.2	243.2	243.6	243.2	243.2	244.0	244.4	243.6	243.6	244.0	244.4
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6



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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	9.5	9.2	9.2	9.0	8.5
90°	9.3	9.8	10.8	10.8	10.8	11.3	11.3
92.5°	63.2	47.5	40.3	34.0	32.8	32.1	31.3
95°	278.4	218.1	176.8	142.0	127.2	123.3	115.5
97.5°	473.6	414.7	357.3	327.0	299.5	285.2	279.0
100°	580.1	529.4	478.4	444.4	409.1	391.0	383.1
102.5°	645.2	621.0	586.4	550.2	525.0	505.3	499.4
105°	682.2	703.8	698.4	682.7	666.5	656.7	650.7
107.5°	649.3	704.8	730.4	738.4	738.3	735.0	731.1
110°	612.0	681.2	723.0	745.0	754.4	757.9	757.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	575.1	645.1	694.3	726.6	742.6	751.1	754.7
115°	522.1	589.4	642.9	681.2	704.8	718.5	725.0
117.5°	485.4	543.4	592.5	630.9	655.2	668.8	672.8
120°	464.6	518.7	561.9	598.2	621.8	635.1	638.9
122.5°	449.7	497.8	538.3	570.7	592.3	605.5	609.1
125°	429.7	472.5	507.8	535.4	555.5	566.3	571.2
127.5°	410.7	450.6	483.7	508.6	526.4	536.6	538.8
130°	397.4	435.7	467.5	492.1	508.3	518.1	521.1
132.5°	384.8	419.6	450.3	474.8	491.0	500.1	503.4
135°	365.4	396.8	424.8	446.4	462.6	471.5	474.4
137.5°	348.1	374.3	398.0	417.3	432.1	440.2	443.5
140°	337.9	360.5	381.2	399.3	412.1	419.4	421.9
142.5°	329.2	348.7	366.6	382.0	392.8	399.8	401.8
145°	318.2	333.5	346.7	358.5	366.9	372.3	374.3
147.5°	309.1	320.8	330.8	340.2	346.8	350.0	350.9
150°	304.0	313.3	322.2	329.6	335.4	337.4	337.9
152.5°	298.9	307.5	314.4	320.6	325.2	327.2	327.7
155°	291.3	298.1	303.5	308.4	311.9	313.3	313.8
157.5°	284.0	289.3	293.5	297.3	300.1	301.5	301.4
160°	278.4	283.4	286.8	290.2	292.7	293.7	293.2
162.5°	273.8	277.8	280.9	283.6	285.7	285.9	285.8
165°	266.7	269.7	272.1	274.1	275.0	275.0	275.0
167.5°	259.8	262.1	263.8	264.8	265.7	265.3	265.2
170°	255.9	257.4	258.3	259.3	259.8	259.8	259.3
172.5°	252.4	253.4	254.0	254.3	255.1	254.3	253.8
175°	247.0	248.1	248.1	248.1	248.5	247.5	247.0
177.5°	244.8	244.8	244.8	244.4	244.8	243.6	243.6
180°	243.6	243.6	243.6	243.6	243.6	243.6	243.6

(END OF REPORT)