

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: P333180-830

Luminaire Tested: **S125DIP-S610D810U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333180-830
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-S610D810U830-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5123.6 lumens
Efficiency: N/A
Efficacy: 133.4 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

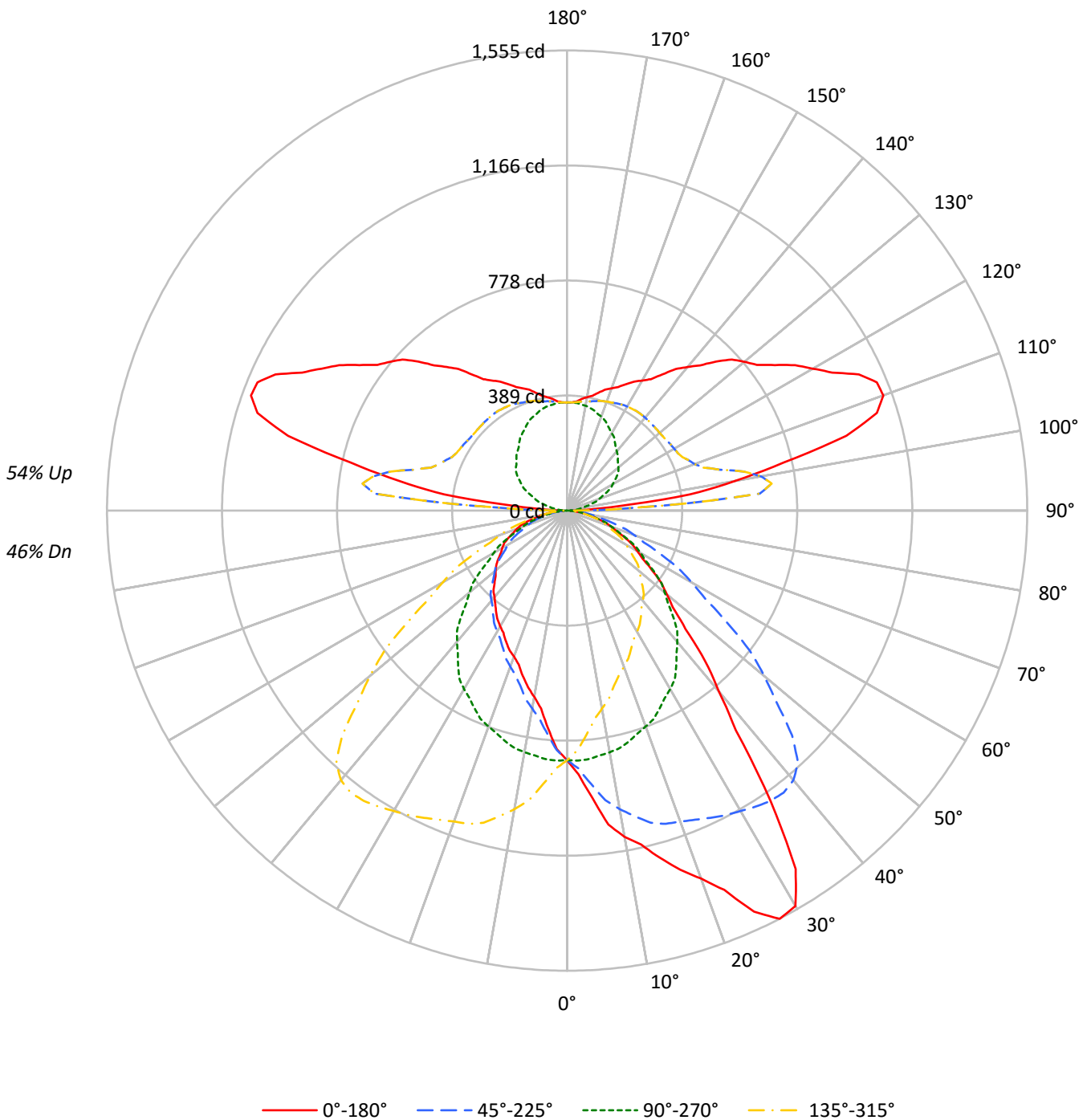
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	86	89	86	82	79	72	69	67	59	57	56	47	46	45	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	33
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	64	56	50	68	59	52	47	50	44	40	41	37	34	33	31	28	25
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	43	36	31	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	21	18	16	13
10	47	35	28	23	43	32	26	22	28	23	19	24	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5448	5448	5448	5448
5°	6309	5466	4786	5466
10°	7340	5438	4194	5438
15°	8125	5398	3869	5398
20°	9095	5335	3608	5335
25°	10655	5264	3480	5264
30°	11508	5193	3370	5193
35°	9462	5062	3297	5062
40°	6726	4878	3217	4878
45°	5167	4631	3172	4631
50°	4410	4324	3166	4324
55°	3926	4023	3193	4023
60°	3543	3695	3274	3695
65°	3272	3365	3359	3365
70°	2974	3021	3408	3021
75°	2628	2662	3376	2662
80°	2213	2168	3087	2168
85°	1756	1564	2490	1564



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.6
10°-20°	241.8	4.7
20°-30°	392.6	7.7
30°-40°	478.9	9.3
40°-50°	435.7	8.5
50°-60°	347.0	6.8
60°-70°	241.7	4.7
70°-80°	128.9	2.5
80°-90°	34.6	0.7
90°-100°	264.9	5.2
100°-110°	569.6	11.1
110°-120°	534.5	10.4
120°-130°	433.2	8.5
130°-140°	347.7	6.8
140°-150°	262.4	5.1
150°-160°	184.7	3.6
160°-170°	108.8	2.1
170°-180°	35.4	0.7
0°-30°	715.6	14.0
0°-40°	1194.5	23.3
0°-60°	1977.3	38.6
0°-90°	2382.4	46.5
90°-120°	1369.1	26.7
90°-150°	2412.3	47.1
90°-180°	2741.0	53.5
0°-180°	5123.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	844	844	844	844	844	
5°	973	843	738	843	973	98
15°	1215	807	579	807	1215	348
25°	1495	739	488	739	1495	683
35°	1200	642	418	642	1200	735
45°	566	507	347	507	566	453
55°	349	357	284	357	349	314
65°	214	220	220	220	214	212
75°	105	107	135	107	105	113
85°	24	21	34	21	24	28
90°	17	1	17	1	17	13
95°	173	24	173	24	173	245
105°	976	83	976	83	976	971
115°	1088	149	1088	149	1088	1063
125°	857	206	857	206	857	775
135°	712	242	712	242	712	552
145°	562	282	562	282	562	357
155°	471	321	471	321	471	219
165°	413	351	413	351	413	118
175°	371	365	371	365	371	36
180°	366	366	366	366	366	



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	892.3	891.1	889.9	887.7	889.4	884.5	882.2	878.3	873.4	871.7	869.6
5°	973.2	975.0	976.8	969.2	970.0	965.0	953.5	944.1	936.7	927.0	920.2
7.5°	1070.5	1066.3	1066.0	1061.1	1052.7	1046.0	1034.0	1018.6	1003.8	986.9	973.0
10°	1119.3	1119.6	1116.4	1110.7	1101.7	1095.2	1079.5	1064.5	1046.2	1024.7	1009.4
12.5°	1155.9	1157.4	1153.4	1145.7	1141.2	1126.8	1114.5	1096.6	1074.9	1057.7	1034.3
15°	1215.2	1211.3	1208.4	1198.7	1191.2	1176.2	1156.5	1137.8	1114.3	1092.4	1070.5
17.5°	1272.3	1275.5	1270.2	1261.3	1238.0	1220.4	1194.0	1168.6	1139.1	1109.8	1083.7
20°	1323.3	1326.3	1318.0	1302.6	1274.7	1257.1	1222.4	1189.4	1155.5	1117.9	1089.2
22.5°	1387.0	1384.7	1373.6	1350.1	1326.0	1293.5	1255.9	1215.8	1173.2	1130.7	1092.6
25°	1495.2	1480.2	1473.4	1444.4	1412.5	1364.9	1313.3	1254.6	1201.6	1145.4	1096.7
27.5°	1555.2	1550.5	1542.9	1522.7	1489.2	1438.3	1377.5	1306.0	1231.1	1160.3	1096.5
30°	1543.2	1543.9	1544.6	1538.1	1516.7	1478.4	1417.9	1340.9	1252.1	1172.2	1098.5
32.5°	1436.6	1449.6	1462.2	1476.9	1482.9	1475.6	1437.7	1368.1	1276.8	1186.0	1097.3
35°	1200.1	1204.1	1244.6	1284.7	1339.1	1381.4	1409.7	1378.8	1301.8	1197.7	1096.0
37.5°	935.8	955.2	983.2	1028.5	1107.0	1177.3	1267.8	1309.4	1284.5	1201.5	1093.4
40°	797.8	815.7	833.9	880.1	946.3	1031.5	1134.3	1222.0	1242.5	1189.4	1084.9
42.5°	691.2	705.4	725.7	760.3	815.7	891.2	989.4	1104.0	1174.5	1154.5	1066.9
45°	565.7	574.7	590.4	618.0	658.1	717.2	803.8	929.2	1038.3	1074.5	1024.0
47.5°	484.2	484.2	496.4	515.5	544.4	594.6	658.6	756.9	873.5	959.8	955.7
50°	438.9	437.2	446.9	463.4	486.3	519.5	580.8	659.2	771.3	869.0	896.2
52.5°	400.0	400.2	406.1	418.3	437.5	466.0	511.7	582.4	678.2	778.4	829.7
55°	348.7	347.3	354.1	362.3	376.4	394.9	427.9	481.9	559.6	658.5	725.0
57.5°	301.8	305.7	308.4	314.1	325.7	338.2	366.0	405.7	467.3	552.1	622.5
60°	274.3	278.2	280.3	286.1	295.4	306.1	327.6	359.9	411.8	484.8	554.6
62.5°	249.6	252.7	253.4	258.5	266.2	276.6	293.5	320.6	361.7	425.5	493.9
65°	214.1	214.1	215.6	220.9	224.5	233.8	246.7	266.4	299.4	349.1	407.5
67.5°	179.8	181.6	181.3	183.6	186.9	194.2	203.4	219.6	244.0	280.3	327.1
70°	157.5	159.0	158.6	160.4	164.0	168.6	176.2	191.5	209.1	240.3	280.3
72.5°	137.5	138.1	137.1	139.5	141.7	145.7	154.1	162.3	178.7	205.0	238.0
75°	105.3	105.9	106.7	108.1	110.3	112.4	116.7	125.0	135.7	155.4	176.5
77.5°	78.9	77.6	79.3	79.1	80.3	81.9	85.7	90.1	98.9	111.3	127.7
80°	59.5	59.8	59.8	60.1	61.9	63.1	66.3	69.5	76.3	85.6	97.0
82.5°	43.4	44.3	43.7	44.4	45.9	46.7	48.4	51.1	55.0	62.4	70.7
85°	23.7	21.9	22.5	23.3	23.3	23.7	25.1	26.1	28.3	31.1	34.4
87.5°	10.3	10.8	10.9	10.9	11.2	10.9	12.0	11.8	12.5	13.3	14.1
90°	17.0	17.0	16.2	16.2	16.2	14.7	14.0	13.3	12.5	11.8	10.3
92.5°	47.0	48.2	49.2	51.0	60.4	71.4	94.8	130.6	192.4	237.6	241.4
95°	173.1	185.0	190.9	213.0	265.3	327.3	417.8	529.9	638.9	653.0	532.8
97.5°	418.6	428.0	449.4	490.7	536.2	622.3	710.6	789.2	808.4	697.3	475.8
100°	574.9	586.6	613.9	666.9	717.8	794.5	870.3	906.4	849.7	665.5	424.5
102.5°	749.3	758.2	787.8	825.6	880.0	931.8	968.3	945.9	825.0	609.4	385.6
105°	976.5	985.3	1000.0	1024.4	1048.0	1056.1	1023.7	922.7	745.8	534.3	347.9
107.5°	1097.0	1103.0	1107.8	1108.0	1096.0	1057.5	974.3	839.5	665.1	482.6	332.0
110°	1137.2	1137.2	1132.0	1117.9	1084.8	1022.2	918.2	778.3	619.1	458.4	327.3



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1132.5	1127.1	1114.3	1090.2	1041.8	967.9	862.8	729.9	584.8	444.2	327.3
115°	1087.8	1078.2	1057.5	1022.2	964.7	884.4	783.4	669.2	547.5	429.0	329.4
117.5°	1009.5	1003.6	983.1	946.6	889.1	815.4	728.4	630.0	525.3	421.4	334.3
120°	958.8	952.9	933.0	897.6	843.1	778.3	697.2	608.7	512.9	417.8	339.0
122.5°	914.0	908.7	888.8	856.4	807.8	747.0	674.8	592.9	502.3	414.9	343.1
125°	857.1	849.7	833.5	803.3	762.0	709.0	644.9	569.7	487.9	411.2	350.1
127.5°	808.4	805.2	789.9	763.2	725.8	676.1	616.2	546.1	474.6	409.4	357.9
130°	781.9	777.5	762.8	738.5	701.6	653.7	596.3	531.3	465.8	408.3	362.6
132.5°	755.4	750.4	736.8	712.5	675.6	629.5	577.3	516.6	458.7	408.3	367.9
135°	711.9	707.5	694.2	669.9	637.4	595.5	548.3	497.5	450.3	408.3	375.1
137.5°	665.5	660.6	648.4	626.3	597.2	561.6	522.4	481.3	442.8	409.2	381.7
140°	633.0	629.3	618.3	599.2	571.8	540.9	507.0	472.4	439.2	409.7	384.7
142.5°	602.9	599.9	589.5	573.3	550.1	523.2	494.1	464.8	436.3	410.4	386.4
145°	561.6	558.6	550.5	538.0	520.3	500.4	477.6	454.7	431.9	409.7	388.4
147.5°	526.5	525.2	520.5	510.4	496.4	481.4	463.8	445.3	427.3	407.8	389.1
150°	507.0	506.3	503.3	494.6	483.4	470.1	456.2	440.0	423.8	406.0	389.1
152.5°	491.7	491.0	488.0	481.0	471.6	461.4	448.6	434.0	419.6	403.7	388.5
155°	470.9	470.1	468.0	462.8	455.4	447.3	437.1	425.3	412.7	399.4	386.9
157.5°	452.3	452.5	450.4	446.2	440.5	434.0	426.1	416.4	406.2	395.0	385.0
160°	440.0	440.7	439.2	435.5	430.4	425.3	417.8	410.5	401.0	392.1	383.2
162.5°	428.8	429.0	428.6	425.6	421.5	417.0	410.8	404.0	396.2	388.5	381.4
165°	412.7	412.7	412.7	411.2	408.3	404.6	400.2	395.0	389.1	383.2	378.8
167.5°	397.9	398.1	398.7	397.4	395.9	393.2	389.8	386.4	382.2	378.1	374.7
170°	389.1	389.8	389.8	389.1	387.7	386.2	384.0	381.7	378.1	375.1	372.9
172.5°	380.9	381.6	382.8	381.4	381.2	380.3	378.6	376.5	373.9	371.6	370.5
175°	370.7	371.5	372.9	372.2	372.2	372.2	370.7	370.7	368.4	367.8	367.8
177.5°	365.5	365.5	367.3	366.7	367.3	367.3	367.3	366.7	366.1	365.5	365.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	867.9	865.9	863.7	859.6	854.7	852.2	848.2	845.6	840.4	836.1	831.5
5°	911.9	902.7	894.1	883.0	870.8	862.9	853.6	843.2	832.5	821.3	809.2
7.5°	957.5	941.1	923.2	903.9	885.1	867.8	851.2	835.0	819.8	801.4	785.9
10°	988.3	967.4	945.3	919.1	893.7	871.5	848.9	829.2	809.2	787.7	768.7
12.5°	1018.9	991.2	959.9	931.1	900.6	873.8	847.3	822.1	796.9	773.1	751.0
15°	1040.5	1016.2	987.1	946.3	911.9	875.1	840.0	807.4	776.9	750.5	722.6
17.5°	1054.7	1023.4	992.2	953.1	908.0	866.8	827.0	789.8	755.4	721.8	694.9
20°	1057.3	1025.1	992.5	954.2	908.0	860.7	821.0	776.3	739.3	704.6	671.7
22.5°	1056.5	1019.9	984.5	945.0	900.0	856.5	808.4	762.8	722.7	688.6	654.2
25°	1048.4	1009.4	965.0	925.2	880.8	834.6	785.9	738.7	697.9	658.8	624.8
27.5°	1041.6	991.0	940.8	894.4	851.5	809.2	762.6	714.2	668.9	629.3	597.3
30°	1033.3	977.8	921.2	872.9	828.9	787.7	743.7	696.4	649.1	610.5	576.1
32.5°	1025.9	961.2	901.5	848.9	802.3	762.2	721.6	676.7	630.3	591.0	556.7
35°	1011.5	936.7	868.3	808.8	759.0	717.9	683.9	642.0	599.4	561.4	528.5
37.5°	993.3	904.5	831.0	768.7	714.2	670.8	639.1	607.0	566.1	529.5	499.7
40°	978.9	881.6	803.8	740.1	683.5	638.4	609.1	578.6	544.6	510.6	479.1
42.5°	960.8	860.9	776.3	707.8	651.8	607.8	576.9	551.1	521.1	489.4	460.1
45°	927.7	823.5	731.9	658.1	601.5	558.2	526.3	507.0	484.5	454.4	429.7
47.5°	878.9	778.6	683.8	607.7	549.3	509.2	479.3	460.7	444.9	422.5	400.1
50°	835.7	745.1	649.1	573.6	515.2	474.8	447.2	430.4	416.8	399.5	380.6
52.5°	787.3	702.9	615.1	540.4	482.6	442.7	415.7	400.9	389.6	377.2	358.5
55°	710.4	638.8	557.1	486.3	432.9	393.9	370.2	357.3	348.0	338.7	327.3
57.5°	625.7	569.7	497.3	432.5	383.4	347.9	325.8	313.3	306.0	301.2	294.5
60°	566.1	518.1	455.8	396.7	348.7	317.3	295.8	286.1	280.0	276.1	271.1
62.5°	510.8	471.4	413.7	359.8	317.8	288.0	268.8	259.5	253.6	251.8	247.5
65°	429.3	398.9	351.3	306.5	270.7	245.2	229.1	220.2	216.6	214.4	214.8
67.5°	349.0	330.5	292.3	254.1	225.5	204.2	191.2	184.4	182.6	179.7	179.6
70°	300.0	286.1	253.8	220.6	195.1	178.7	167.2	160.0	158.3	156.8	156.5
72.5°	256.7	244.6	216.6	189.9	167.1	152.6	143.2	138.8	135.9	135.1	135.0
75°	193.0	186.2	164.0	142.9	127.1	117.1	110.7	106.7	104.5	104.2	104.5
77.5°	137.2	131.3	117.2	102.2	92.3	84.6	79.2	77.9	75.4	75.5	75.1
80°	103.1	99.2	90.2	78.4	70.2	63.7	60.9	58.3	57.7	56.6	57.7
82.5°	74.7	70.5	64.5	56.9	50.1	46.3	43.4	42.6	42.1	41.7	41.8
85°	36.9	37.2	33.6	27.9	25.1	22.9	21.1	21.1	20.7	20.5	20.7
87.5°	14.5	13.7	12.3	11.2	9.5	8.3	7.7	7.9	7.2	7.2	7.7
90°	9.6	8.1	7.4	5.9	4.4	2.9	1.5	0.8	1.5	2.9	4.4
92.5°	168.1	100.7	60.4	38.9	26.2	17.1	10.9	9.0	10.9	17.1	26.2
95°	329.4	167.3	88.4	55.2	39.0	30.9	25.1	24.3	25.1	30.9	39.0
97.5°	263.0	144.1	92.0	68.1	53.5	45.4	41.3	40.3	41.3	45.4	53.5
100°	238.7	143.0	100.2	78.1	64.1	56.0	53.1	51.6	53.1	56.0	64.1
102.5°	228.8	148.3	110.3	88.7	75.9	67.2	64.8	64.0	64.8	67.2	75.9
105°	224.8	159.2	126.8	106.1	94.3	87.0	83.3	83.3	83.3	87.0	94.3
107.5°	231.6	175.4	144.0	125.5	113.2	107.2	103.6	102.2	103.6	107.2	113.2
110°	238.1	187.2	156.9	137.8	126.8	120.1	117.2	115.7	117.2	120.1	126.8



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.3	198.4	169.4	150.8	139.7	133.1	130.7	129.2	130.7	133.1	139.7
115°	258.6	215.9	188.7	170.2	159.2	152.6	150.3	148.8	150.3	152.6	159.2
117.5°	272.9	233.9	208.1	190.3	177.8	171.2	168.8	166.5	168.8	171.2	177.8
120°	282.3	246.9	221.1	202.6	190.1	183.5	180.6	178.3	180.6	183.5	190.1
122.5°	292.8	259.3	233.5	215.1	201.3	194.7	192.4	190.8	192.4	194.7	201.3
125°	307.3	275.6	251.3	232.1	218.1	211.5	207.8	206.3	207.8	211.5	218.1
127.5°	320.6	291.4	268.0	248.8	233.9	225.6	220.8	218.6	220.8	225.6	233.9
130°	329.4	301.4	278.6	259.4	243.9	234.3	228.5	226.2	228.5	234.3	243.9
132.5°	337.1	310.9	288.0	268.8	252.8	242.0	235.0	232.1	235.0	242.0	252.8
135°	347.9	323.6	300.7	280.8	265.3	253.5	244.7	241.8	244.7	253.5	265.3
137.5°	355.8	332.5	311.7	291.2	276.1	264.3	256.0	253.8	256.0	264.3	276.1
140°	361.1	339.0	317.6	297.7	283.7	271.9	263.1	260.9	263.1	271.9	283.7
142.5°	364.1	343.1	322.9	304.3	290.8	279.0	270.8	269.1	270.8	279.0	290.8
145°	368.4	350.1	330.9	314.0	300.7	290.4	283.0	281.5	283.0	290.4	300.7
147.5°	371.2	354.5	337.7	322.8	311.3	301.7	295.4	294.5	295.4	301.7	311.3
150°	372.9	357.4	341.2	328.7	318.4	308.8	303.6	302.2	303.6	308.8	318.4
152.5°	374.1	360.3	345.3	334.0	324.2	315.8	311.3	310.4	311.3	315.8	324.2
155°	375.1	363.4	350.8	340.4	333.1	325.7	321.3	321.3	321.3	325.7	333.1
157.5°	375.9	365.8	355.1	347.2	340.7	334.4	330.9	331.0	330.9	334.4	340.7
160°	375.9	367.0	357.4	350.8	344.9	339.8	336.8	337.5	336.8	339.8	344.9
162.5°	375.2	368.2	359.8	354.3	349.6	345.1	342.1	342.8	342.1	345.1	349.6
165°	374.4	368.4	362.6	358.2	355.2	351.6	349.3	350.8	349.3	351.6	355.2
167.5°	372.6	368.4	363.6	360.8	358.7	356.7	355.3	356.1	355.3	356.7	358.7
170°	371.5	368.4	364.8	362.6	361.1	359.7	358.9	359.7	358.9	359.7	361.1
172.5°	370.2	367.9	364.8	363.7	362.9	361.4	360.7	362.0	360.7	361.4	362.9
175°	368.4	367.0	364.8	364.8	364.8	364.1	363.4	364.8	363.4	364.1	364.8
177.5°	366.7	366.1	365.0	365.0	365.5	365.0	365.0	366.1	365.0	365.0	365.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	829.0	825.8	823.2	817.5	814.4	810.0	806.6	810.3	806.3	808.0	805.5
5°	803.1	793.1	785.9	775.5	766.6	758.4	752.2	751.2	748.3	746.9	742.6
7.5°	772.0	759.5	747.2	733.6	722.1	710.5	702.9	696.8	692.8	687.4	683.7
10°	753.7	736.9	722.6	706.1	691.7	679.2	669.2	664.2	659.5	652.7	650.3
12.5°	731.0	713.7	696.2	678.5	664.9	650.8	642.2	634.7	631.5	623.8	623.0
15°	703.9	677.8	660.6	642.7	623.7	612.3	605.1	596.9	593.3	588.0	584.0
17.5°	671.6	648.2	626.7	608.2	591.9	582.3	573.3	567.7	561.6	558.1	551.6
20°	648.1	625.8	604.4	584.7	572.1	561.1	553.9	548.6	542.1	540.3	533.9
22.5°	628.3	603.8	583.2	566.7	553.0	540.5	532.7	529.0	524.6	519.1	517.8
25°	596.2	570.7	553.2	536.7	524.5	513.1	507.7	503.0	498.8	494.8	493.4
27.5°	568.4	545.6	524.8	509.9	499.4	488.9	484.2	478.5	475.3	472.2	468.3
30°	548.9	525.7	507.4	493.0	481.5	472.3	467.2	463.4	460.4	457.6	455.4
32.5°	528.9	507.3	489.6	475.6	464.1	457.1	452.6	449.9	446.7	443.3	440.5
35°	502.4	478.7	461.6	449.3	440.4	435.0	430.0	427.5	424.0	424.0	421.0
37.5°	472.5	452.0	436.9	425.7	417.7	412.9	407.6	405.9	403.5	402.0	401.1
40°	454.7	435.7	421.4	410.3	401.7	397.8	393.5	390.6	389.2	387.4	386.7
42.5°	436.4	418.3	404.5	394.3	386.8	383.4	379.5	377.5	374.6	372.2	371.8
45°	408.5	391.0	378.4	370.2	363.8	359.9	357.3	353.1	351.6	348.7	348.4
47.5°	382.1	365.2	353.0	346.2	340.5	337.3	333.4	329.1	327.4	326.0	325.9
50°	362.3	346.9	335.5	329.0	323.7	319.1	315.1	312.3	311.1	311.1	311.9
52.5°	342.3	329.2	319.4	311.6	306.5	301.5	297.9	296.1	294.5	296.2	297.6
55°	312.9	299.7	292.6	285.0	280.0	274.3	272.5	271.7	270.7	273.5	274.9
57.5°	281.8	272.6	264.2	256.7	252.2	248.9	246.5	246.1	248.1	249.4	254.1
60°	262.1	251.4	243.8	238.1	232.7	230.5	229.9	229.1	230.5	234.5	240.6
62.5°	240.3	231.6	223.5	219.2	215.3	211.7	211.5	212.0	214.8	219.3	225.5
65°	208.4	200.9	195.5	190.5	187.3	185.1	185.9	187.3	190.5	196.6	203.4
67.5°	176.0	170.8	166.0	161.9	158.8	158.8	159.6	161.7	165.5	172.5	178.7
70°	155.0	149.3	145.3	143.5	141.1	139.7	141.8	145.3	148.5	155.0	160.4
72.5°	134.1	129.2	126.2	125.0	123.9	122.7	123.5	127.3	131.7	138.2	144.4
75°	103.1	101.3	99.2	97.7	96.7	97.4	98.1	101.7	105.3	112.1	119.2
77.5°	75.3	73.4	72.1	71.7	71.2	71.5	73.5	76.2	79.7	84.6	90.1
80°	56.9	56.2	55.5	55.1	55.1	55.5	58.3	60.1	63.3	68.1	72.3
82.5°	41.5	41.0	40.9	40.8	41.1	41.2	42.9	45.2	47.9	51.5	55.1
85°	21.9	21.1	22.2	22.5	21.9	22.9	23.7	25.1	26.1	27.9	29.7
87.5°	8.3	9.2	9.0	9.6	9.8	10.7	10.6	11.8	12.5	13.3	13.3
90°	5.9	7.4	8.1	9.6	10.3	11.8	12.5	13.3	14.0	14.7	16.2
92.5°	38.9	60.4	100.7	168.1	241.4	237.6	192.4	130.6	94.8	71.4	60.4
95°	55.2	88.4	167.3	329.4	532.8	653.0	638.9	529.9	417.8	327.3	265.3
97.5°	68.1	92.0	144.1	263.0	475.8	697.3	808.4	789.2	710.6	622.3	536.2
100°	78.1	100.2	143.0	238.7	424.5	665.5	849.7	906.4	870.3	794.5	717.8
102.5°	88.7	110.3	148.3	228.8	385.6	609.4	825.0	945.9	968.3	931.8	880.0
105°	106.1	126.8	159.2	224.8	347.9	534.3	745.8	922.7	1023.7	1056.1	1048.0
107.5°	125.5	144.0	175.4	231.6	332.0	482.6	665.1	839.5	974.3	1057.5	1096.0
110°	137.8	156.9	187.2	238.1	327.3	458.4	619.1	778.3	918.2	1022.2	1084.8



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	150.8	169.4	198.4	246.3	327.3	444.2	584.8	729.9	862.8	967.9	1041.8
115°	170.2	188.7	215.9	258.6	329.4	429.0	547.5	669.2	783.4	884.4	964.7
117.5°	190.3	208.1	233.9	272.9	334.3	421.4	525.3	630.0	728.4	815.4	889.1
120°	202.6	221.1	246.9	282.3	339.0	417.8	512.9	608.7	697.2	778.3	843.1
122.5°	215.1	233.5	259.3	292.8	343.1	414.9	502.3	592.9	674.8	747.0	807.8
125°	232.1	251.3	275.6	307.3	350.1	411.2	487.9	569.7	644.9	709.0	762.0
127.5°	248.8	268.0	291.4	320.6	357.9	409.4	474.6	546.1	616.2	676.1	725.8
130°	259.4	278.6	301.4	329.4	362.6	408.3	465.8	531.3	596.3	653.7	701.6
132.5°	268.8	288.0	310.9	337.1	367.9	408.3	458.7	516.6	577.3	629.5	675.6
135°	280.8	300.7	323.6	347.9	375.1	408.3	450.3	497.5	548.3	595.5	637.4
137.5°	291.2	311.7	332.5	355.8	381.7	409.2	442.8	481.3	522.4	561.6	597.2
140°	297.7	317.6	339.0	361.1	384.7	409.7	439.2	472.4	507.0	540.9	571.8
142.5°	304.3	322.9	343.1	364.1	386.4	410.4	436.3	464.8	494.1	523.2	550.1
145°	314.0	330.9	350.1	368.4	388.4	409.7	431.9	454.7	477.6	500.4	520.3
147.5°	322.8	337.7	354.5	371.2	389.1	407.8	427.3	445.3	463.8	481.4	496.4
150°	328.7	341.2	357.4	372.9	389.1	406.0	423.8	440.0	456.2	470.1	483.4
152.5°	334.0	345.3	360.3	374.1	388.5	403.7	419.6	434.0	448.6	461.4	471.6
155°	340.4	350.8	363.4	375.1	386.9	399.4	412.7	425.3	437.1	447.3	455.4
157.5°	347.2	355.1	365.8	375.9	385.0	395.0	406.2	416.4	426.1	434.0	440.5
160°	350.8	357.4	367.0	375.9	383.2	392.1	401.0	410.5	417.8	425.3	430.4
162.5°	354.3	359.8	368.2	375.2	381.4	388.5	396.2	404.0	410.8	417.0	421.5
165°	358.2	362.6	368.4	374.4	378.8	383.2	389.1	395.0	400.2	404.6	408.3
167.5°	360.8	363.6	368.4	372.6	374.7	378.1	382.2	386.4	389.8	393.2	395.9
170°	362.6	364.8	368.4	371.5	372.9	375.1	378.1	381.7	384.0	386.2	387.7
172.5°	363.7	364.8	367.9	370.2	370.5	371.6	373.9	376.5	378.6	380.3	381.2
175°	364.8	364.8	367.0	368.4	367.8	367.8	368.4	370.7	370.7	372.2	372.2
177.5°	365.0	365.0	366.1	366.7	365.5	365.5	366.1	366.7	367.3	367.3	367.3
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	803.7	805.8	804.1	806.3	804.1	805.8	803.7	805.5	808.0	806.3	810.3
5°	740.8	737.5	739.7	738.3	739.7	737.5	740.8	742.6	746.9	748.3	751.2
7.5°	682.7	679.6	676.1	674.4	676.1	679.6	682.7	683.7	687.4	692.8	696.8
10°	646.3	642.3	642.0	639.5	642.0	642.3	646.3	650.3	652.7	659.5	664.2
12.5°	619.6	616.0	611.9	610.9	611.9	616.0	619.6	623.0	623.8	631.5	634.7
15°	581.8	579.0	576.5	578.6	576.5	579.0	581.8	584.0	588.0	593.3	596.9
17.5°	550.4	548.0	547.6	545.0	547.6	548.0	550.4	551.6	558.1	561.6	567.7
20°	530.7	528.9	529.5	524.9	529.5	528.9	530.7	533.9	540.3	542.1	548.6
22.5°	514.9	511.3	511.0	510.0	511.0	511.3	514.9	517.8	519.1	524.6	529.0
25°	490.2	488.4	486.6	488.4	486.6	488.4	490.2	493.4	494.8	498.8	503.0
27.5°	468.6	466.5	466.0	466.2	466.0	466.5	468.6	468.3	472.2	475.3	478.5
30°	455.4	451.9	452.2	451.9	452.2	451.9	455.4	455.4	457.6	460.4	463.4
32.5°	441.1	438.7	438.2	437.5	438.2	438.7	441.1	440.5	443.3	446.7	449.9
35°	420.0	420.0	418.2	418.2	418.2	420.0	420.0	421.0	424.0	424.0	427.5
37.5°	400.1	399.8	398.7	398.9	398.7	399.8	400.1	401.1	402.0	403.5	405.9
40°	385.2	384.9	383.8	381.6	383.8	384.9	385.2	386.7	387.4	389.2	390.6
42.5°	371.0	369.8	369.2	368.5	369.2	369.8	371.0	371.8	372.2	374.6	377.5
45°	348.4	348.4	347.7	347.3	347.7	348.4	348.4	348.4	348.7	351.6	353.1
47.5°	326.5	327.2	328.5	328.3	328.5	327.2	326.5	325.9	326.0	327.4	329.1
50°	313.3	313.7	314.7	315.1	314.7	313.7	313.3	311.9	311.1	311.1	312.3
52.5°	298.7	300.8	302.1	301.9	302.1	300.8	298.7	297.6	296.2	294.5	296.1
55°	278.2	280.7	283.2	283.6	283.2	280.7	278.2	274.9	273.5	270.7	271.7
57.5°	258.0	261.5	264.1	264.9	264.1	261.5	258.0	254.1	249.4	248.1	246.1
60°	244.2	248.8	252.0	253.5	252.0	248.8	244.2	240.6	234.5	230.5	229.1
62.5°	231.0	236.2	239.5	239.8	239.5	236.2	231.0	225.5	219.3	214.8	212.0
65°	209.4	214.8	217.7	219.8	217.7	214.8	209.4	203.4	196.6	190.5	187.3
67.5°	186.2	191.6	194.8	196.5	194.8	191.6	186.2	178.7	172.5	165.5	161.7
70°	169.4	174.7	179.0	180.5	179.0	174.7	169.4	160.4	155.0	148.5	145.3
72.5°	152.8	157.5	161.0	162.7	161.0	157.5	152.8	144.4	138.2	131.7	127.3
75°	123.9	130.4	133.6	135.3	133.6	130.4	123.9	119.2	112.1	105.3	101.7
77.5°	95.6	101.4	103.3	104.2	103.3	101.4	95.6	90.1	84.6	79.7	76.2
80°	76.6	80.2	82.8	83.0	82.8	80.2	76.6	72.3	68.1	63.3	60.1
82.5°	58.9	61.8	62.7	63.6	62.7	61.8	58.9	55.1	51.5	47.9	45.2
85°	32.2	33.6	34.0	33.6	34.0	33.6	32.2	29.7	27.9	26.1	25.1
87.5°	13.9	13.6	13.7	14.2	13.7	13.6	13.9	13.3	13.3	12.5	11.8
90°	16.2	16.2	17.0	17.0	17.0	16.2	16.2	16.2	14.7	14.0	13.3
92.5°	51.0	49.2	48.2	47.0	48.2	49.2	51.0	60.4	71.4	94.8	130.6
95°	213.0	190.9	185.0	173.1	185.0	190.9	213.0	265.3	327.3	417.8	529.9
97.5°	490.7	449.4	428.0	418.6	428.0	449.4	490.7	536.2	622.3	710.6	789.2
100°	666.9	613.9	586.6	574.9	586.6	613.9	666.9	717.8	794.5	870.3	906.4
102.5°	825.6	787.8	758.2	749.3	758.2	787.8	825.6	880.0	931.8	968.3	945.9
105°	1024.4	1000.0	985.3	976.5	985.3	1000.0	1024.4	1048.0	1056.1	1023.7	922.7
107.5°	1108.0	1107.8	1103.0	1097.0	1103.0	1107.8	1108.0	1096.0	1057.5	974.3	839.5
110°	1117.9	1132.0	1137.2	1137.2	1137.2	1132.0	1117.9	1084.8	1022.2	918.2	778.3



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1090.2	1114.3	1127.1	1132.5	1127.1	1114.3	1090.2	1041.8	967.9	862.8	729.9
115°	1022.2	1057.5	1078.2	1087.8	1078.2	1057.5	1022.2	964.7	884.4	783.4	669.2
117.5°	946.6	983.1	1003.6	1009.5	1003.6	983.1	946.6	889.1	815.4	728.4	630.0
120°	897.6	933.0	952.9	958.8	952.9	933.0	897.6	843.1	778.3	697.2	608.7
122.5°	856.4	888.8	908.7	914.0	908.7	888.8	856.4	807.8	747.0	674.8	592.9
125°	803.3	833.5	849.7	857.1	849.7	833.5	803.3	762.0	709.0	644.9	569.7
127.5°	763.2	789.9	805.2	808.4	805.2	789.9	763.2	725.8	676.1	616.2	546.1
130°	738.5	762.8	777.5	781.9	777.5	762.8	738.5	701.6	653.7	596.3	531.3
132.5°	712.5	736.8	750.4	755.4	750.4	736.8	712.5	675.6	629.5	577.3	516.6
135°	669.9	694.2	707.5	711.9	707.5	694.2	669.9	637.4	595.5	548.3	497.5
137.5°	626.3	648.4	660.6	665.5	660.6	648.4	626.3	597.2	561.6	522.4	481.3
140°	599.2	618.3	629.3	633.0	629.3	618.3	599.2	571.8	540.9	507.0	472.4
142.5°	573.3	589.5	599.9	602.9	599.9	589.5	573.3	550.1	523.2	494.1	464.8
145°	538.0	550.5	558.6	561.6	558.6	550.5	538.0	520.3	500.4	477.6	454.7
147.5°	510.4	520.5	525.2	526.5	525.2	520.5	510.4	496.4	481.4	463.8	445.3
150°	494.6	503.3	506.3	507.0	506.3	503.3	494.6	483.4	470.1	456.2	440.0
152.5°	481.0	488.0	491.0	491.7	491.0	488.0	481.0	471.6	461.4	448.6	434.0
155°	462.8	468.0	470.1	470.9	470.1	468.0	462.8	455.4	447.3	437.1	425.3
157.5°	446.2	450.4	452.5	452.3	452.5	450.4	446.2	440.5	434.0	426.1	416.4
160°	435.5	439.2	440.7	440.0	440.7	439.2	435.5	430.4	425.3	417.8	410.5
162.5°	425.6	428.6	429.0	428.8	429.0	428.6	425.6	421.5	417.0	410.8	404.0
165°	411.2	412.7	412.7	412.7	412.7	412.7	411.2	408.3	404.6	400.2	395.0
167.5°	397.4	398.7	398.1	397.9	398.1	398.7	397.4	395.9	393.2	389.8	386.4
170°	389.1	389.8	389.8	389.1	389.8	389.8	389.1	387.7	386.2	384.0	381.7
172.5°	381.4	382.8	381.6	380.9	381.6	382.8	381.4	381.2	380.3	378.6	376.5
175°	372.2	372.9	371.5	370.7	371.5	372.9	372.2	372.2	372.2	370.7	370.7
177.5°	366.7	367.3	365.5	365.5	365.5	367.3	366.7	367.3	367.3	367.3	366.7
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	806.6	810.0	814.4	817.5	823.2	825.8	829.0	831.5	836.1	840.4	845.6
5°	752.2	758.4	766.6	775.5	785.9	793.1	803.1	809.2	821.3	832.5	843.2
7.5°	702.9	710.5	722.1	733.6	747.2	759.5	772.0	785.9	801.4	819.8	835.0
10°	669.2	679.2	691.7	706.1	722.6	736.9	753.7	768.7	787.7	809.2	829.2
12.5°	642.2	650.8	664.9	678.5	696.2	713.7	731.0	751.0	773.1	796.9	822.1
15°	605.1	612.3	623.7	642.7	660.6	677.8	703.9	722.6	750.5	776.9	807.4
17.5°	573.3	582.3	591.9	608.2	626.7	648.2	671.6	694.9	721.8	755.4	789.8
20°	553.9	561.1	572.1	584.7	604.4	625.8	648.1	671.7	704.6	739.3	776.3
22.5°	532.7	540.5	553.0	566.7	583.2	603.8	628.3	654.2	688.6	722.7	762.8
25°	507.7	513.1	524.5	536.7	553.2	570.7	596.2	624.8	658.8	697.9	738.7
27.5°	484.2	488.9	499.4	509.9	524.8	545.6	568.4	597.3	629.3	668.9	714.2
30°	467.2	472.3	481.5	493.0	507.4	525.7	548.9	576.1	610.5	649.1	696.4
32.5°	452.6	457.1	464.1	475.6	489.6	507.3	528.9	556.7	591.0	630.3	676.7
35°	430.0	435.0	440.4	449.3	461.6	478.7	502.4	528.5	561.4	599.4	642.0
37.5°	407.6	412.9	417.7	425.7	436.9	452.0	472.5	499.7	529.5	566.1	607.0
40°	393.5	397.8	401.7	410.3	421.4	435.7	454.7	479.1	510.6	544.6	578.6
42.5°	379.5	383.4	386.8	394.3	404.5	418.3	436.4	460.1	489.4	521.1	551.1
45°	357.3	359.9	363.8	370.2	378.4	391.0	408.5	429.7	454.4	484.5	507.0
47.5°	333.4	337.3	340.5	346.2	353.0	365.2	382.1	400.1	422.5	444.9	460.7
50°	315.1	319.1	323.7	329.0	335.5	346.9	362.3	380.6	399.5	416.8	430.4
52.5°	297.9	301.5	306.5	311.6	319.4	329.2	342.3	358.5	377.2	389.6	400.9
55°	272.5	274.3	280.0	285.0	292.6	299.7	312.9	327.3	338.7	348.0	357.3
57.5°	246.5	248.9	252.2	256.7	264.2	272.6	281.8	294.5	301.2	306.0	313.3
60°	229.9	230.5	232.7	238.1	243.8	251.4	262.1	271.1	276.1	280.0	286.1
62.5°	211.5	211.7	215.3	219.2	223.5	231.6	240.3	247.5	251.8	253.6	259.5
65°	185.9	185.1	187.3	190.5	195.5	200.9	208.4	214.8	214.4	216.6	220.2
67.5°	159.6	158.8	158.8	161.9	166.0	170.8	176.0	179.6	179.7	182.6	184.4
70°	141.8	139.7	141.1	143.5	145.3	149.3	155.0	156.5	156.8	158.3	160.0
72.5°	123.5	122.7	123.9	125.0	126.2	129.2	134.1	135.0	135.1	135.9	138.8
75°	98.1	97.4	96.7	97.7	99.2	101.3	103.1	104.5	104.2	104.5	106.7
77.5°	73.5	71.5	71.2	71.7	72.1	73.4	75.3	75.1	75.5	75.4	77.9
80°	58.3	55.5	55.1	55.1	55.5	56.2	56.9	57.7	56.6	57.7	58.3
82.5°	42.9	41.2	41.1	40.8	40.9	41.0	41.5	41.8	41.7	42.1	42.6
85°	23.7	22.9	21.9	22.5	22.2	21.1	21.9	20.7	20.5	20.7	21.1
87.5°	10.6	10.7	9.8	9.6	9.0	9.2	8.3	7.7	7.2	7.2	7.9
90°	12.5	11.8	10.3	9.6	8.1	7.4	5.9	4.4	2.9	1.5	0.8
92.5°	192.4	237.6	241.4	168.1	100.7	60.4	38.9	26.2	17.1	10.9	9.0
95°	638.9	653.0	532.8	329.4	167.3	88.4	55.2	39.0	30.9	25.1	24.3
97.5°	808.4	697.3	475.8	263.0	144.1	92.0	68.1	53.5	45.4	41.3	40.3
100°	849.7	665.5	424.5	238.7	143.0	100.2	78.1	64.1	56.0	53.1	51.6
102.5°	825.0	609.4	385.6	228.8	148.3	110.3	88.7	75.9	67.2	64.8	64.0
105°	745.8	534.3	347.9	224.8	159.2	126.8	106.1	94.3	87.0	83.3	83.3
107.5°	665.1	482.6	332.0	231.6	175.4	144.0	125.5	113.2	107.2	103.6	102.2
110°	619.1	458.4	327.3	238.1	187.2	156.9	137.8	126.8	120.1	117.2	115.7



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	584.8	444.2	327.3	246.3	198.4	169.4	150.8	139.7	133.1	130.7	129.2
115°	547.5	429.0	329.4	258.6	215.9	188.7	170.2	159.2	152.6	150.3	148.8
117.5°	525.3	421.4	334.3	272.9	233.9	208.1	190.3	177.8	171.2	168.8	166.5
120°	512.9	417.8	339.0	282.3	246.9	221.1	202.6	190.1	183.5	180.6	178.3
122.5°	502.3	414.9	343.1	292.8	259.3	233.5	215.1	201.3	194.7	192.4	190.8
125°	487.9	411.2	350.1	307.3	275.6	251.3	232.1	218.1	211.5	207.8	206.3
127.5°	474.6	409.4	357.9	320.6	291.4	268.0	248.8	233.9	225.6	220.8	218.6
130°	465.8	408.3	362.6	329.4	301.4	278.6	259.4	243.9	234.3	228.5	226.2
132.5°	458.7	408.3	367.9	337.1	310.9	288.0	268.8	252.8	242.0	235.0	232.1
135°	450.3	408.3	375.1	347.9	323.6	300.7	280.8	265.3	253.5	244.7	241.8
137.5°	442.8	409.2	381.7	355.8	332.5	311.7	291.2	276.1	264.3	256.0	253.8
140°	439.2	409.7	384.7	361.1	339.0	317.6	297.7	283.7	271.9	263.1	260.9
142.5°	436.3	410.4	386.4	364.1	343.1	322.9	304.3	290.8	279.0	270.8	269.1
145°	431.9	409.7	388.4	368.4	350.1	330.9	314.0	300.7	290.4	283.0	281.5
147.5°	427.3	407.8	389.1	371.2	354.5	337.7	322.8	311.3	301.7	295.4	294.5
150°	423.8	406.0	389.1	372.9	357.4	341.2	328.7	318.4	308.8	303.6	302.2
152.5°	419.6	403.7	388.5	374.1	360.3	345.3	334.0	324.2	315.8	311.3	310.4
155°	412.7	399.4	386.9	375.1	363.4	350.8	340.4	333.1	325.7	321.3	321.3
157.5°	406.2	395.0	385.0	375.9	365.8	355.1	347.2	340.7	334.4	330.9	331.0
160°	401.0	392.1	383.2	375.9	367.0	357.4	350.8	344.9	339.8	336.8	337.5
162.5°	396.2	388.5	381.4	375.2	368.2	359.8	354.3	349.6	345.1	342.1	342.8
165°	389.1	383.2	378.8	374.4	368.4	362.6	358.2	355.2	351.6	349.3	350.8
167.5°	382.2	378.1	374.7	372.6	368.4	363.6	360.8	358.7	356.7	355.3	356.1
170°	378.1	375.1	372.9	371.5	368.4	364.8	362.6	361.1	359.7	358.9	359.7
172.5°	373.9	371.6	370.5	370.2	367.9	364.8	363.7	362.9	361.4	360.7	362.0
175°	368.4	367.8	367.8	368.4	367.0	364.8	364.8	364.8	364.1	363.4	364.8
177.5°	366.1	365.5	365.5	366.7	366.1	365.0	365.0	365.5	365.0	365.0	366.1
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	848.2	852.2	854.7	859.6	863.7	865.9	867.9	869.6	871.7	873.4	878.3
5°	853.6	862.9	870.8	883.0	894.1	902.7	911.9	920.2	927.0	936.7	944.1
7.5°	851.2	867.8	885.1	903.9	923.2	941.1	957.5	973.0	986.9	1003.8	1018.6
10°	848.9	871.5	893.7	919.1	945.3	967.4	988.3	1009.4	1024.7	1046.2	1064.5
12.5°	847.3	873.8	900.6	931.1	959.9	991.2	1018.9	1034.3	1057.7	1074.9	1096.6
15°	840.0	875.1	911.9	946.3	987.1	1016.2	1040.5	1070.5	1092.4	1114.3	1137.8
17.5°	827.0	866.8	908.0	953.1	992.2	1023.4	1054.7	1083.7	1109.8	1139.1	1168.6
20°	821.0	860.7	908.0	954.2	992.5	1025.1	1057.3	1089.2	1117.9	1155.5	1189.4
22.5°	808.4	856.5	900.0	945.0	984.5	1019.9	1056.5	1092.6	1130.7	1173.2	1215.8
25°	785.9	834.6	880.8	925.2	965.0	1009.4	1048.4	1096.7	1145.4	1201.6	1254.6
27.5°	762.6	809.2	851.5	894.4	940.8	991.0	1041.6	1096.5	1160.3	1231.1	1306.0
30°	743.7	787.7	828.9	872.9	921.2	977.8	1033.3	1098.5	1172.2	1252.1	1340.9
32.5°	721.6	762.2	802.3	848.9	901.5	961.2	1025.9	1097.3	1186.0	1276.8	1368.1
35°	683.9	717.9	759.0	808.8	868.3	936.7	1011.5	1096.0	1197.7	1301.8	1378.8
37.5°	639.1	670.8	714.2	768.7	831.0	904.5	993.3	1093.4	1201.5	1284.5	1309.4
40°	609.1	638.4	683.5	740.1	803.8	881.6	978.9	1084.9	1189.4	1242.5	1222.0
42.5°	576.9	607.8	651.8	707.8	776.3	860.9	960.8	1066.9	1154.5	1174.5	1104.0
45°	526.3	558.2	601.5	658.1	731.9	823.5	927.7	1024.0	1074.5	1038.3	929.2
47.5°	479.3	509.2	549.3	607.7	683.8	778.6	878.9	955.7	959.8	873.5	756.9
50°	447.2	474.8	515.2	573.6	649.1	745.1	835.7	896.2	869.0	771.3	659.2
52.5°	415.7	442.7	482.6	540.4	615.1	702.9	787.3	829.7	778.4	678.2	582.4
55°	370.2	393.9	432.9	486.3	557.1	638.8	710.4	725.0	658.5	559.6	481.9
57.5°	325.8	347.9	383.4	432.5	497.3	569.7	625.7	622.5	552.1	467.3	405.7
60°	295.8	317.3	348.7	396.7	455.8	518.1	566.1	554.6	484.8	411.8	359.9
62.5°	268.8	288.0	317.8	359.8	413.7	471.4	510.8	493.9	425.5	361.7	320.6
65°	229.1	245.2	270.7	306.5	351.3	398.9	429.3	407.5	349.1	299.4	266.4
67.5°	191.2	204.2	225.5	254.1	292.3	330.5	349.0	327.1	280.3	244.0	219.6
70°	167.2	178.7	195.1	220.6	253.8	286.1	300.0	280.3	240.3	209.1	191.5
72.5°	143.2	152.6	167.1	189.9	216.6	244.6	256.7	238.0	205.0	178.7	162.3
75°	110.7	117.1	127.1	142.9	164.0	186.2	193.0	176.5	155.4	135.7	125.0
77.5°	79.2	84.6	92.3	102.2	117.2	131.3	137.2	127.7	111.3	98.9	90.1
80°	60.9	63.7	70.2	78.4	90.2	99.2	103.1	97.0	85.6	76.3	69.5
82.5°	43.4	46.3	50.1	56.9	64.5	70.5	74.7	70.7	62.4	55.0	51.1
85°	21.1	22.9	25.1	27.9	33.6	37.2	36.9	34.4	31.1	28.3	26.1
87.5°	7.7	8.3	9.5	11.2	12.3	13.7	14.5	14.1	13.3	12.5	11.8
90°	1.5	2.9	4.4	5.9	7.4	8.1	9.6	10.3	11.8	12.5	13.3
92.5°	10.9	17.1	26.2	38.9	60.4	100.7	168.1	241.4	237.6	192.4	130.6
95°	25.1	30.9	39.0	55.2	88.4	167.3	329.4	532.8	653.0	638.9	529.9
97.5°	41.3	45.4	53.5	68.1	92.0	144.1	263.0	475.8	697.3	808.4	789.2
100°	53.1	56.0	64.1	78.1	100.2	143.0	238.7	424.5	665.5	849.7	906.4
102.5°	64.8	67.2	75.9	88.7	110.3	148.3	228.8	385.6	609.4	825.0	945.9
105°	83.3	87.0	94.3	106.1	126.8	159.2	224.8	347.9	534.3	745.8	922.7
107.5°	103.6	107.2	113.2	125.5	144.0	175.4	231.6	332.0	482.6	665.1	839.5
110°	117.2	120.1	126.8	137.8	156.9	187.2	238.1	327.3	458.4	619.1	778.3



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	130.7	133.1	139.7	150.8	169.4	198.4	246.3	327.3	444.2	584.8	729.9
115°	150.3	152.6	159.2	170.2	188.7	215.9	258.6	329.4	429.0	547.5	669.2
117.5°	168.8	171.2	177.8	190.3	208.1	233.9	272.9	334.3	421.4	525.3	630.0
120°	180.6	183.5	190.1	202.6	221.1	246.9	282.3	339.0	417.8	512.9	608.7
122.5°	192.4	194.7	201.3	215.1	233.5	259.3	292.8	343.1	414.9	502.3	592.9
125°	207.8	211.5	218.1	232.1	251.3	275.6	307.3	350.1	411.2	487.9	569.7
127.5°	220.8	225.6	233.9	248.8	268.0	291.4	320.6	357.9	409.4	474.6	546.1
130°	228.5	234.3	243.9	259.4	278.6	301.4	329.4	362.6	408.3	465.8	531.3
132.5°	235.0	242.0	252.8	268.8	288.0	310.9	337.1	367.9	408.3	458.7	516.6
135°	244.7	253.5	265.3	280.8	300.7	323.6	347.9	375.1	408.3	450.3	497.5
137.5°	256.0	264.3	276.1	291.2	311.7	332.5	355.8	381.7	409.2	442.8	481.3
140°	263.1	271.9	283.7	297.7	317.6	339.0	361.1	384.7	409.7	439.2	472.4
142.5°	270.8	279.0	290.8	304.3	322.9	343.1	364.1	386.4	410.4	436.3	464.8
145°	283.0	290.4	300.7	314.0	330.9	350.1	368.4	388.4	409.7	431.9	454.7
147.5°	295.4	301.7	311.3	322.8	337.7	354.5	371.2	389.1	407.8	427.3	445.3
150°	303.6	308.8	318.4	328.7	341.2	357.4	372.9	389.1	406.0	423.8	440.0
152.5°	311.3	315.8	324.2	334.0	345.3	360.3	374.1	388.5	403.7	419.6	434.0
155°	321.3	325.7	333.1	340.4	350.8	363.4	375.1	386.9	399.4	412.7	425.3
157.5°	330.9	334.4	340.7	347.2	355.1	365.8	375.9	385.0	395.0	406.2	416.4
160°	336.8	339.8	344.9	350.8	357.4	367.0	375.9	383.2	392.1	401.0	410.5
162.5°	342.1	345.1	349.6	354.3	359.8	368.2	375.2	381.4	388.5	396.2	404.0
165°	349.3	351.6	355.2	358.2	362.6	368.4	374.4	378.8	383.2	389.1	395.0
167.5°	355.3	356.7	358.7	360.8	363.6	368.4	372.6	374.7	378.1	382.2	386.4
170°	358.9	359.7	361.1	362.6	364.8	368.4	371.5	372.9	375.1	378.1	381.7
172.5°	360.7	361.4	362.9	363.7	364.8	367.9	370.2	370.5	371.6	373.9	376.5
175°	363.4	364.1	364.8	364.8	364.8	367.0	368.4	367.8	367.8	368.4	370.7
177.5°	365.0	365.0	365.5	365.0	365.0	366.1	366.7	365.5	365.5	366.1	366.7
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	882.2	884.5	889.4	887.7	889.9	891.1	892.3
5°	953.5	965.0	970.0	969.2	976.8	975.0	973.2
7.5°	1034.0	1046.0	1052.7	1061.1	1066.0	1066.3	1070.5
10°	1079.5	1095.2	1101.7	1110.7	1116.4	1119.6	1119.3
12.5°	1114.5	1126.8	1141.2	1145.7	1153.4	1157.4	1155.9
15°	1156.5	1176.2	1191.2	1198.7	1208.4	1211.3	1215.2
17.5°	1194.0	1220.4	1238.0	1261.3	1270.2	1275.5	1272.3
20°	1222.4	1257.1	1274.7	1302.6	1318.0	1326.3	1323.3
22.5°	1255.9	1293.5	1326.0	1350.1	1373.6	1384.7	1387.0
25°	1313.3	1364.9	1412.5	1444.4	1473.4	1480.2	1495.2
27.5°	1377.5	1438.3	1489.2	1522.7	1542.9	1550.5	1555.2
30°	1417.9	1478.4	1516.7	1538.1	1544.6	1543.9	1543.2
32.5°	1437.7	1475.6	1482.9	1476.9	1462.2	1449.6	1436.6
35°	1409.7	1381.4	1339.1	1284.7	1244.6	1204.1	1200.1
37.5°	1267.8	1177.3	1107.0	1028.5	983.2	955.2	935.8
40°	1134.3	1031.5	946.3	880.1	833.9	815.7	797.8
42.5°	989.4	891.2	815.7	760.3	725.7	705.4	691.2
45°	803.8	717.2	658.1	618.0	590.4	574.7	565.7
47.5°	658.6	594.6	544.4	515.5	496.4	484.2	484.2
50°	580.8	519.5	486.3	463.4	446.9	437.2	438.9
52.5°	511.7	466.0	437.5	418.3	406.1	400.2	400.0
55°	427.9	394.9	376.4	362.3	354.1	347.3	348.7
57.5°	366.0	338.2	325.7	314.1	308.4	305.7	301.8
60°	327.6	306.1	295.4	286.1	280.3	278.2	274.3
62.5°	293.5	276.6	266.2	258.5	253.4	252.7	249.6
65°	246.7	233.8	224.5	220.9	215.6	214.1	214.1
67.5°	203.4	194.2	186.9	183.6	181.3	181.6	179.8
70°	176.2	168.6	164.0	160.4	158.6	159.0	157.5
72.5°	154.1	145.7	141.7	139.5	137.1	138.1	137.5
75°	116.7	112.4	110.3	108.1	106.7	105.9	105.3
77.5°	85.7	81.9	80.3	79.1	79.3	77.6	78.9
80°	66.3	63.1	61.9	60.1	59.8	59.8	59.5
82.5°	48.4	46.7	45.9	44.4	43.7	44.3	43.4
85°	25.1	23.7	23.3	23.3	22.5	21.9	23.7
87.5°	12.0	10.9	11.2	10.9	10.9	10.8	10.3
90°	14.0	14.7	16.2	16.2	16.2	17.0	17.0
92.5°	94.8	71.4	60.4	51.0	49.2	48.2	47.0
95°	417.8	327.3	265.3	213.0	190.9	185.0	173.1
97.5°	710.6	622.3	536.2	490.7	449.4	428.0	418.6
100°	870.3	794.5	717.8	666.9	613.9	586.6	574.9
102.5°	968.3	931.8	880.0	825.6	787.8	758.2	749.3
105°	1023.7	1056.1	1048.0	1024.4	1000.0	985.3	976.5
107.5°	974.3	1057.5	1096.0	1108.0	1107.8	1103.0	1097.0
110°	918.2	1022.2	1084.8	1117.9	1132.0	1137.2	1137.2



TEST NUMBER: P333180-830

CATALOG NUMBER: S125DIP-S610D810U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	862.8	967.9	1041.8	1090.2	1114.3	1127.1	1132.5
115°	783.4	884.4	964.7	1022.2	1057.5	1078.2	1087.8
117.5°	728.4	815.4	889.1	946.6	983.1	1003.6	1009.5
120°	697.2	778.3	843.1	897.6	933.0	952.9	958.8
122.5°	674.8	747.0	807.8	856.4	888.8	908.7	914.0
125°	644.9	709.0	762.0	803.3	833.5	849.7	857.1
127.5°	616.2	676.1	725.8	763.2	789.9	805.2	808.4
130°	596.3	653.7	701.6	738.5	762.8	777.5	781.9
132.5°	577.3	629.5	675.6	712.5	736.8	750.4	755.4
135°	548.3	595.5	637.4	669.9	694.2	707.5	711.9
137.5°	522.4	561.6	597.2	626.3	648.4	660.6	665.5
140°	507.0	540.9	571.8	599.2	618.3	629.3	633.0
142.5°	494.1	523.2	550.1	573.3	589.5	599.9	602.9
145°	477.6	500.4	520.3	538.0	550.5	558.6	561.6
147.5°	463.8	481.4	496.4	510.4	520.5	525.2	526.5
150°	456.2	470.1	483.4	494.6	503.3	506.3	507.0
152.5°	448.6	461.4	471.6	481.0	488.0	491.0	491.7
155°	437.1	447.3	455.4	462.8	468.0	470.1	470.9
157.5°	426.1	434.0	440.5	446.2	450.4	452.5	452.3
160°	417.8	425.3	430.4	435.5	439.2	440.7	440.0
162.5°	410.8	417.0	421.5	425.6	428.6	429.0	428.8
165°	400.2	404.6	408.3	411.2	412.7	412.7	412.7
167.5°	389.8	393.2	395.9	397.4	398.7	398.1	397.9
170°	384.0	386.2	387.7	389.1	389.8	389.8	389.1
172.5°	378.6	380.3	381.2	381.4	382.8	381.6	380.9
175°	370.7	372.2	372.2	372.2	372.9	371.5	370.7
177.5°	367.3	367.3	367.3	366.7	367.3	365.5	365.5
180°	365.5	365.5	365.5	365.5	365.5	365.5	365.5

(END OF REPORT)