

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333170-830

Luminaire Tested: **S125DIP-S610D590U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333170-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S610D590U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4309.9 lumens
Efficiency: N/A
Efficacy: 131.4 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

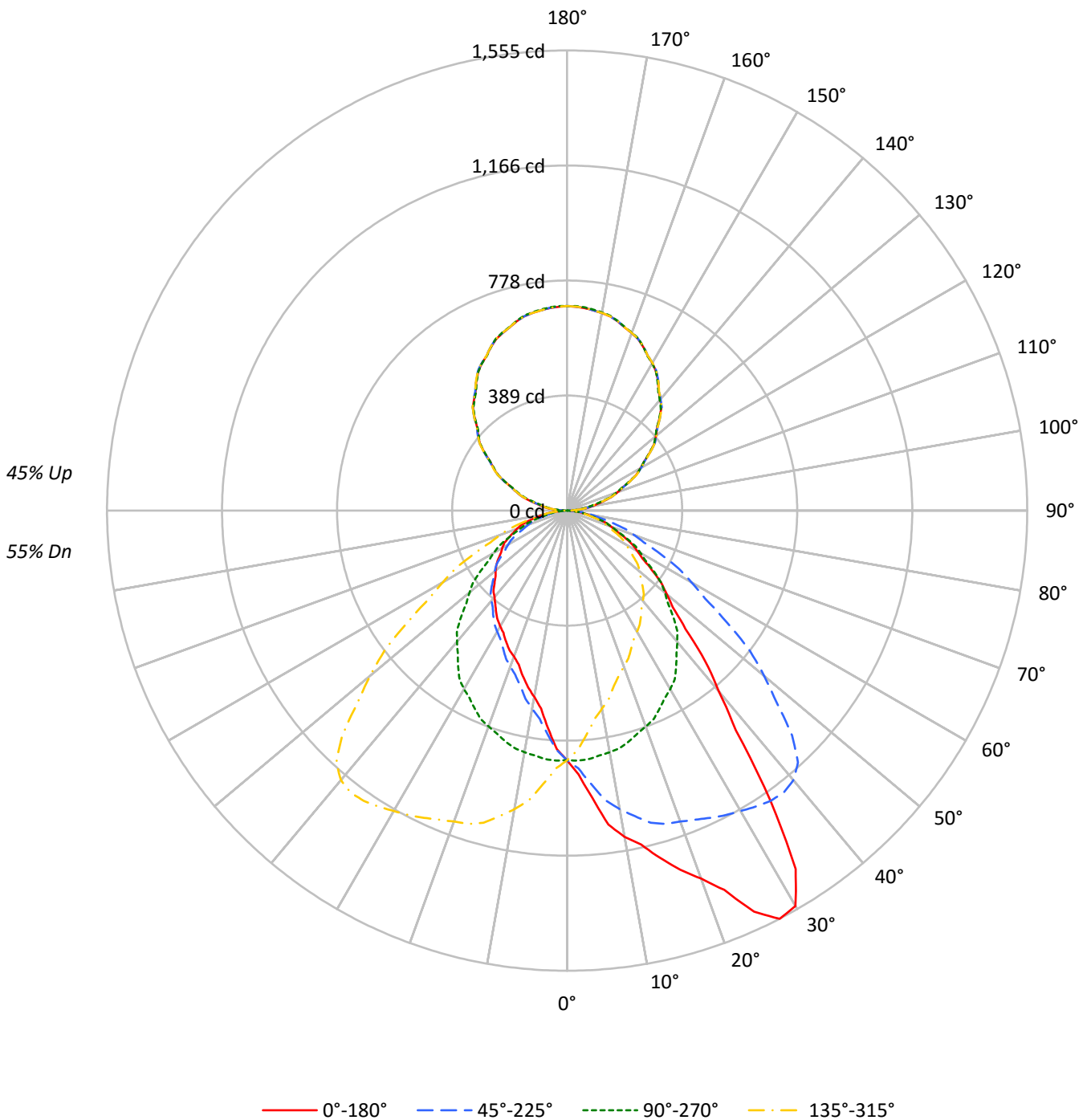
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	35	31	29	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	25	31	26	23	26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.9
10°-20°	241.8	5.6
20°-30°	392.6	9.1
30°-40°	478.9	11.1
40°-50°	435.7	10.1
50°-60°	347.0	8.1
60°-70°	241.7	5.6
70°-80°	128.9	3.0
80°-90°	34.0	0.8
90°-100°	46.3	1.1
100°-110°	136.7	3.2
110°-120°	231.5	5.4
120°-130°	304.6	7.1
130°-140°	341.3	7.9
140°-150°	334.5	7.8
150°-160°	281.0	6.5
160°-170°	186.8	4.3
170°-180°	65.4	1.5
0°-30°	715.6	16.6
0°-40°	1194.5	27.7
0°-60°	1977.3	45.9
0°-90°	2381.9	55.3
90°-120°	414.4	9.6
90°-150°	1394.9	32.4
90°-180°	1928.0	44.7
0°-180°	4309.9	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°	13	1	13	1	13	8
95°	46	35	46	35	46	47
105°	133	123	133	123	133	141
115°	234	232	234	232	234	231
125°	340	338	340	338	340	304
135°	442	440	442	440	442	341
145°	535	533	535	533	535	334
155°	610	610	610	610	610	281
165°	661	663	661	663	661	186
175°	687	689	687	689	687	65
180°	691	691	691	691	691	



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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°	9.4	10.0	10.2	10.1	10.3	10.2	11.2	11.1	11.9	12.6	13.6
90°	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8	9.2	8.6	7.7
92.5°	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2	21.4	20.6	19.6
95°	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1	42.2	41.4	40.2
97.5°	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5	66.7	65.9	64.3
100°	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5	83.3	82.3	80.7
102.5°	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8	100.7	99.4	98.7
105°	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0	129.2	128.5	127.8
107.5°	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3	159.9	159.6	159.0
110°	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3	181.1	180.7	180.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6	202.4	202.2	201.7
115°	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7	234.9	235.0	234.7
117.5°	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0	266.9	266.8	266.6
120°	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7	288.7	288.7	288.6
122.5°	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1	310.2	310.3	309.9
125°	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5	341.8	342.0	341.9
127.5°	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7	372.9	373.0	372.8
130°	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3	393.5	393.6	393.3
132.5°	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1	413.3	413.4	413.4
135°	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6	443.6	443.6	443.5
137.5°	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3	473.1	473.0	472.7
140°	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9	491.7	491.4	491.1
142.5°	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2	510.1	509.9	509.5
145°	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6	536.6	536.6	536.3
147.5°	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1	560.8	560.5	560.2
150°	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4	576.4	576.4	575.9
152.5°	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8	590.5	590.2	589.9
155°	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2	610.8	610.3	610.2
157.5°	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0	628.5	628.0	627.9
160°	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7	639.2	638.8	638.7
162.5°	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8	649.2	648.7	648.7
165°	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4	662.9	662.4	662.3
167.5°	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4	672.7	672.0	672.0
170°	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5	678.7	678.1	678.1
172.5°	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8	683.1	682.3	682.3
175°	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6	687.9	687.2	687.2
177.5°	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8	690.2	689.7	689.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



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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°	13.9	13.3	12.0	10.9	9.2	8.2	7.7	7.8	7.2	7.1	7.5
90°	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6	1.5	2.5	3.4
92.5°	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0	13.7	14.3	15.0
95°	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0	35.2	35.4	35.6
97.5°	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1	58.2	58.2	58.3
100°	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
102.5°	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8	94.3	94.7	95.2
105°	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6	123.2	123.8	124.4
107.5°	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4	155.0	155.6	156.2
110°	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3	176.9	177.6	178.1



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7	199.1	199.3	199.6
115°	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8	232.2	232.7	233.2
117.5°	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9	265.0	265.3	265.5
120°	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5	286.2	286.7	287.3
122.5°	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9	308.1	308.3	308.5
125°	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2	338.9	339.6	340.4
127.5°	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5	370.9	371.3	371.6
130°	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8	390.4	391.1	391.6
132.5°	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2	410.2	411.1	412.1
135°	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8	440.5	441.3	442.0
137.5°	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6	469.4	470.0	470.7
140°	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1	487.8	488.3	488.9
142.5°	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7	506.1	506.6	507.2
145°	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8	533.3	533.9	534.3
147.5°	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0	558.3	558.6	558.8
150°	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8	574.7	574.6	574.5
152.5°	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5	588.7	588.9	589.1
155°	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
157.5°	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7	628.4	628.1	627.9
160°	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9	639.5	639.1	638.8
162.5°	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8	649.5	649.2	648.9
165°	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0	662.7	662.5	662.2
167.5°	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2	673.7	673.2	672.7
170°	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1	679.7	679.2	678.7
172.5°	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5	684.0	683.5	683.1
175°	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3	688.8	688.3	687.9
177.5°	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8	691.4	691.1	690.7
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

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°	8.0	8.8	8.7	9.1	9.3	10.0	9.9	11.1	11.8	12.5	12.3
90°	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8	10.4	11.0	11.5
92.5°	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2	23.0	23.8	24.3
95°	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1	43.9	44.8	45.2
97.5°	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5	68.3	69.1	69.6
100°	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5	85.5	86.5	87.2
102.5°	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8	103.0	104.2	104.9
105°	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0	130.6	131.4	132.0
107.5°	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3	160.7	161.0	161.2
110°	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3	181.7	182.1	182.2



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6	202.6	202.8	202.8
115°	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7	234.6	234.5	234.4
117.5°	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0	267.1	267.2	267.0
120°	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7	288.7	288.7	288.5
122.5°	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1	310.0	309.9	309.6
125°	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5	341.3	341.0	340.8
127.5°	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7	372.6	372.5	372.3
130°	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3	393.2	393.1	392.9
132.5°	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1	413.0	412.9	412.6
135°	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6	443.6	443.6	443.4
137.5°	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3	473.3	473.5	473.3
140°	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9	492.2	492.4	492.2
142.5°	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2	510.4	510.5	510.3
145°	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6	536.6	536.6	536.4
147.5°	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1	561.4	561.7	561.4
150°	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4	576.4	576.4	576.3
152.5°	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8	591.1	591.4	591.3
155°	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2	611.7	612.2	612.2
157.5°	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0	629.4	629.9	629.8
160°	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7	640.2	640.6	640.6
162.5°	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8	650.4	651.0	650.9
165°	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4	663.8	664.4	664.2
167.5°	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4	674.2	674.9	674.9
170°	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5	680.1	680.9	680.8
172.5°	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8	684.5	685.2	685.2
175°	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6	689.3	690.0	689.9
177.5°	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8	691.4	691.9	691.9
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

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°	13.0	12.7	12.8	13.5	12.8	12.7	13.0	12.3	12.5	11.8	11.1
90°	11.9	12.2	12.5	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8
92.5°	24.6	24.9	25.1	25.4	25.1	24.9	24.6	24.3	23.8	23.0	22.2
95°	45.5	45.8	46.0	46.3	46.0	45.8	45.5	45.2	44.8	43.9	43.1
97.5°	69.7	69.8	69.9	70.1	69.9	69.8	69.7	69.6	69.1	68.3	67.5
100°	87.5	87.8	87.9	88.2	87.9	87.8	87.5	87.2	86.5	85.5	84.5
102.5°	105.3	105.6	105.9	106.2	105.9	105.6	105.3	104.9	104.2	103.0	101.8
105°	132.2	132.6	133.0	133.4	133.0	132.6	132.2	132.0	131.4	130.6	130.0
107.5°	161.2	161.2	161.1	161.1	161.1	161.2	161.2	161.2	161.0	160.7	160.3
110°	182.1	182.0	181.8	181.7	181.8	182.0	182.1	182.2	182.1	181.7	181.3



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	202.6	202.4	202.2	202.0	202.2	202.4	202.6	202.8	202.8	202.6	202.6
115°	234.2	234.1	234.0	233.9	234.0	234.1	234.2	234.4	234.5	234.6	234.7
117.5°	266.6	266.1	265.6	265.0	265.6	266.1	266.6	267.0	267.2	267.1	267.0
120°	288.0	287.6	287.1	286.6	287.1	287.6	288.0	288.5	288.7	288.7	288.7
122.5°	309.2	308.9	308.5	308.1	308.5	308.9	309.2	309.6	309.9	310.0	310.1
125°	340.7	340.6	340.4	340.4	340.4	340.6	340.7	340.8	341.0	341.3	341.5
127.5°	372.0	371.8	371.6	371.4	371.6	371.8	372.0	372.3	372.5	372.6	372.7
130°	392.7	392.5	392.2	392.0	392.2	392.5	392.7	392.9	393.1	393.2	393.3
132.5°	412.4	412.0	411.7	411.3	411.7	412.0	412.4	412.6	412.9	413.0	413.1
135°	442.9	442.4	442.0	441.5	442.0	442.4	442.9	443.4	443.6	443.6	443.6
137.5°	472.7	472.1	471.6	470.9	471.6	472.1	472.7	473.3	473.5	473.3	473.3
140°	491.6	491.1	490.4	489.8	490.4	491.1	491.6	492.2	492.4	492.2	491.9
142.5°	509.7	509.1	508.5	507.9	508.5	509.1	509.7	510.3	510.5	510.4	510.2
145°	536.1	535.7	535.4	535.0	535.4	535.7	536.1	536.4	536.6	536.6	536.6
147.5°	560.5	559.8	558.9	558.2	558.9	559.8	560.5	561.4	561.7	561.4	561.1
150°	576.1	575.8	575.6	575.3	575.6	575.8	576.1	576.3	576.4	576.4	576.4
152.5°	590.8	590.4	589.9	589.6	589.9	590.4	590.8	591.3	591.4	591.1	590.8
155°	611.5	611.0	610.3	609.7	610.3	611.0	611.5	612.2	612.2	611.7	611.2
157.5°	629.0	628.2	627.5	626.6	627.5	628.2	629.0	629.8	629.9	629.4	629.0
160°	640.1	639.4	638.9	638.3	638.9	639.4	640.1	640.6	640.6	640.2	639.7
162.5°	650.3	649.5	648.8	648.1	648.8	649.5	650.3	650.9	651.0	650.4	649.8
165°	663.5	662.8	662.0	661.4	662.0	662.8	663.5	664.2	664.4	663.8	663.4
167.5°	674.1	673.4	672.6	671.9	672.6	673.4	674.1	674.9	674.9	674.2	673.4
170°	680.0	679.2	678.3	677.5	678.3	679.2	680.0	680.8	680.9	680.1	679.5
172.5°	684.5	683.7	683.0	682.2	683.0	683.7	684.5	685.2	685.2	684.5	683.8
175°	689.2	688.3	687.5	686.6	687.5	688.3	689.2	689.9	690.0	689.3	688.6
177.5°	691.3	690.6	689.8	689.2	689.8	690.6	691.3	691.9	691.9	691.4	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

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°	9.9	10.0	9.3	9.1	8.7	8.8	8.0	7.5	7.1	7.2	7.8
90°	9.2	8.6	7.7	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6
92.5°	21.4	20.6	19.6	18.6	17.5	16.5	15.6	15.0	14.3	13.7	13.0
95°	42.2	41.4	40.2	39.0	37.8	36.7	35.9	35.6	35.4	35.2	35.0
97.5°	66.7	65.9	64.3	62.6	61.0	59.3	58.4	58.3	58.2	58.2	58.1
100°	83.3	82.3	80.7	79.2	77.6	76.1	75.3	75.3	75.3	75.3	75.3
102.5°	100.7	99.4	98.7	97.9	97.1	96.3	95.7	95.2	94.7	94.3	93.8
105°	129.2	128.5	127.8	127.1	126.4	125.6	125.0	124.4	123.8	123.2	122.6
107.5°	159.9	159.6	159.0	158.4	158.0	157.4	156.8	156.2	155.6	155.0	154.4
110°	181.1	180.7	180.3	179.9	179.6	179.3	178.8	178.1	177.6	176.9	176.3



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	202.4	202.2	201.7	201.2	200.9	200.4	200.0	199.6	199.3	199.1	198.7
115°	234.9	235.0	234.7	234.5	234.2	234.0	233.7	233.2	232.7	232.2	231.8
117.5°	266.9	266.8	266.6	266.4	266.2	266.0	265.7	265.5	265.3	265.0	264.9
120°	288.7	288.7	288.6	288.5	288.4	288.2	287.9	287.3	286.7	286.2	285.5
122.5°	310.2	310.3	309.9	309.6	309.3	309.0	308.8	308.5	308.3	308.1	307.9
125°	341.8	342.0	341.9	341.8	341.6	341.5	341.1	340.4	339.6	338.9	338.2
127.5°	372.9	373.0	372.8	372.7	372.5	372.4	372.1	371.6	371.3	370.9	370.5
130°	393.5	393.6	393.3	393.1	392.9	392.7	392.2	391.6	391.1	390.4	389.8
132.5°	413.3	413.4	413.4	413.5	413.5	413.6	413.1	412.1	411.1	410.2	409.2
135°	443.6	443.6	443.5	443.4	443.3	443.1	442.7	442.0	441.3	440.5	439.8
137.5°	473.1	473.0	472.7	472.4	472.2	471.9	471.5	470.7	470.0	469.4	468.6
140°	491.7	491.4	491.1	490.8	490.4	490.0	489.6	488.9	488.3	487.8	487.1
142.5°	510.1	509.9	509.5	509.1	508.6	508.1	507.7	507.2	506.6	506.1	505.7
145°	536.6	536.6	536.3	535.9	535.6	535.2	534.8	534.3	533.9	533.3	532.8
147.5°	560.8	560.5	560.2	560.0	559.6	559.3	559.1	558.8	558.6	558.3	558.0
150°	576.4	576.4	575.9	575.4	575.0	574.5	574.3	574.5	574.6	574.7	574.8
152.5°	590.5	590.2	589.9	589.7	589.6	589.4	589.2	589.1	588.9	588.7	588.5
155°	610.8	610.3	610.2	610.0	609.9	609.8	609.7	609.7	609.7	609.7	609.7
157.5°	628.5	628.0	627.9	627.8	627.6	627.5	627.6	627.9	628.1	628.4	628.7
160°	639.2	638.8	638.7	638.6	638.4	638.3	638.4	638.8	639.1	639.5	639.9
162.5°	649.2	648.7	648.7	648.7	648.6	648.6	648.7	648.9	649.2	649.5	649.8
165°	662.9	662.4	662.3	662.2	662.0	661.9	662.0	662.2	662.5	662.7	663.0
167.5°	672.7	672.0	672.0	672.0	672.0	672.0	672.2	672.7	673.2	673.7	674.2
170°	678.7	678.1	678.1	678.1	678.1	678.1	678.3	678.7	679.2	679.7	680.1
172.5°	683.1	682.3	682.3	682.3	682.3	682.3	682.6	683.1	683.5	684.0	684.5
175°	687.9	687.2	687.2	687.2	687.2	687.2	687.4	687.9	688.3	688.8	689.3
177.5°	690.2	689.7	689.8	689.8	689.9	690.0	690.2	690.7	691.1	691.4	691.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

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	8.2	9.2	10.9	12.0	13.3	13.9	13.6	12.6	11.9	11.1
90°	1.5	2.5	3.4	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8
92.5°	13.7	14.3	15.0	15.6	16.5	17.5	18.6	19.6	20.6	21.4	22.2
95°	35.2	35.4	35.6	35.9	36.7	37.8	39.0	40.2	41.4	42.2	43.1
97.5°	58.2	58.2	58.3	58.4	59.3	61.0	62.6	64.3	65.9	66.7	67.5
100°	75.3	75.3	75.3	75.3	76.1	77.6	79.2	80.7	82.3	83.3	84.5
102.5°	94.3	94.7	95.2	95.7	96.3	97.1	97.9	98.7	99.4	100.7	101.8
105°	123.2	123.8	124.4	125.0	125.6	126.4	127.1	127.8	128.5	129.2	130.0
107.5°	155.0	155.6	156.2	156.8	157.4	158.0	158.4	159.0	159.6	159.9	160.3
110°	176.9	177.6	178.1	178.8	179.3	179.6	179.9	180.3	180.7	181.1	181.3



TEST NUMBER: P333170-830

CATALOG NUMBER: S125DIP-S610D590U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	199.1	199.3	199.6	200.0	200.4	200.9	201.2	201.7	202.2	202.4	202.6
115°	232.2	232.7	233.2	233.7	234.0	234.2	234.5	234.7	235.0	234.9	234.7
117.5°	265.0	265.3	265.5	265.7	266.0	266.2	266.4	266.6	266.8	266.9	267.0
120°	286.2	286.7	287.3	287.9	288.2	288.4	288.5	288.6	288.7	288.7	288.7
122.5°	308.1	308.3	308.5	308.8	309.0	309.3	309.6	309.9	310.3	310.2	310.1
125°	338.9	339.6	340.4	341.1	341.5	341.6	341.8	341.9	342.0	341.8	341.5
127.5°	370.9	371.3	371.6	372.1	372.4	372.5	372.7	372.8	373.0	372.9	372.7
130°	390.4	391.1	391.6	392.2	392.7	392.9	393.1	393.3	393.6	393.5	393.3
132.5°	410.2	411.1	412.1	413.1	413.6	413.5	413.5	413.4	413.4	413.3	413.1
135°	440.5	441.3	442.0	442.7	443.1	443.3	443.4	443.5	443.6	443.6	443.6
137.5°	469.4	470.0	470.7	471.5	471.9	472.2	472.4	472.7	473.0	473.1	473.3
140°	487.8	488.3	488.9	489.6	490.0	490.4	490.8	491.1	491.4	491.7	491.9
142.5°	506.1	506.6	507.2	507.7	508.1	508.6	509.1	509.5	509.9	510.1	510.2
145°	533.3	533.9	534.3	534.8	535.2	535.6	535.9	536.3	536.6	536.6	536.6
147.5°	558.3	558.6	558.8	559.1	559.3	559.6	560.0	560.2	560.5	560.8	561.1
150°	574.7	574.6	574.5	574.3	574.5	575.0	575.4	575.9	576.4	576.4	576.4
152.5°	588.7	588.9	589.1	589.2	589.4	589.6	589.7	589.9	590.2	590.5	590.8
155°	609.7	609.7	609.7	609.7	609.8	609.9	610.0	610.2	610.3	610.8	611.2
157.5°	628.4	628.1	627.9	627.6	627.5	627.6	627.8	627.9	628.0	628.5	629.0
160°	639.5	639.1	638.8	638.4	638.3	638.4	638.6	638.7	638.8	639.2	639.7
162.5°	649.5	649.2	648.9	648.7	648.6	648.6	648.7	648.7	648.7	649.2	649.8
165°	662.7	662.5	662.2	662.0	661.9	662.0	662.2	662.3	662.4	662.9	663.4
167.5°	673.7	673.2	672.7	672.2	672.0	672.0	672.0	672.0	672.0	672.7	673.4
170°	679.7	679.2	678.7	678.3	678.1	678.1	678.1	678.1	678.1	678.7	679.5
172.5°	684.0	683.5	683.1	682.6	682.3	682.3	682.3	682.3	682.3	683.1	683.8
175°	688.8	688.3	687.9	687.4	687.2	687.2	687.2	687.2	687.2	687.9	688.6
177.5°	691.4	691.1	690.7	690.2	690.0	689.9	689.8	689.8	689.7	690.2	690.8
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0	691.0



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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°	11.2	10.2	10.3	10.1	10.2	10.0	9.4
90°	10.4	11.0	11.5	11.9	12.2	12.5	12.9
92.5°	23.0	23.8	24.3	24.6	24.9	25.1	25.4
95°	43.9	44.8	45.2	45.5	45.8	46.0	46.3
97.5°	68.3	69.1	69.6	69.7	69.8	69.9	70.1
100°	85.5	86.5	87.2	87.5	87.8	87.9	88.2
102.5°	103.0	104.2	104.9	105.3	105.6	105.9	106.2
105°	130.6	131.4	132.0	132.2	132.6	133.0	133.4
107.5°	160.7	161.0	161.2	161.2	161.2	161.1	161.1
110°	181.7	182.1	182.2	182.1	182.0	181.8	181.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	202.6	202.8	202.8	202.6	202.4	202.2	202.0
115°	234.6	234.5	234.4	234.2	234.1	234.0	233.9
117.5°	267.1	267.2	267.0	266.6	266.1	265.6	265.0
120°	288.7	288.7	288.5	288.0	287.6	287.1	286.6
122.5°	310.0	309.9	309.6	309.2	308.9	308.5	308.1
125°	341.3	341.0	340.8	340.7	340.6	340.4	340.4
127.5°	372.6	372.5	372.3	372.0	371.8	371.6	371.4
130°	393.2	393.1	392.9	392.7	392.5	392.2	392.0
132.5°	413.0	412.9	412.6	412.4	412.0	411.7	411.3
135°	443.6	443.6	443.4	442.9	442.4	442.0	441.5
137.5°	473.3	473.5	473.3	472.7	472.1	471.6	470.9
140°	492.2	492.4	492.2	491.6	491.1	490.4	489.8
142.5°	510.4	510.5	510.3	509.7	509.1	508.5	507.9
145°	536.6	536.6	536.4	536.1	535.7	535.4	535.0
147.5°	561.4	561.7	561.4	560.5	559.8	558.9	558.2
150°	576.4	576.4	576.3	576.1	575.8	575.6	575.3
152.5°	591.1	591.4	591.3	590.8	590.4	589.9	589.6
155°	611.7	612.2	612.2	611.5	611.0	610.3	609.7
157.5°	629.4	629.9	629.8	629.0	628.2	627.5	626.6
160°	640.2	640.6	640.6	640.1	639.4	638.9	638.3
162.5°	650.4	651.0	650.9	650.3	649.5	648.8	648.1
165°	663.8	664.4	664.2	663.5	662.8	662.0	661.4
167.5°	674.2	674.9	674.9	674.1	673.4	672.6	671.9
170°	680.1	680.9	680.8	680.0	679.2	678.3	677.5
172.5°	684.5	685.2	685.2	684.5	683.7	683.0	682.2
175°	689.3	690.0	689.9	689.2	688.3	687.5	686.6
177.5°	691.4	691.9	691.9	691.3	690.6	689.8	689.2
180°	691.0	691.0	691.0	691.0	691.0	691.0	691.0

(END OF REPORT)