

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: P333189-830

Luminaire Tested: **S125DIP-S610D1035U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333189-830  
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-S610D1035U830-4F0-1E-UDD-A4  
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

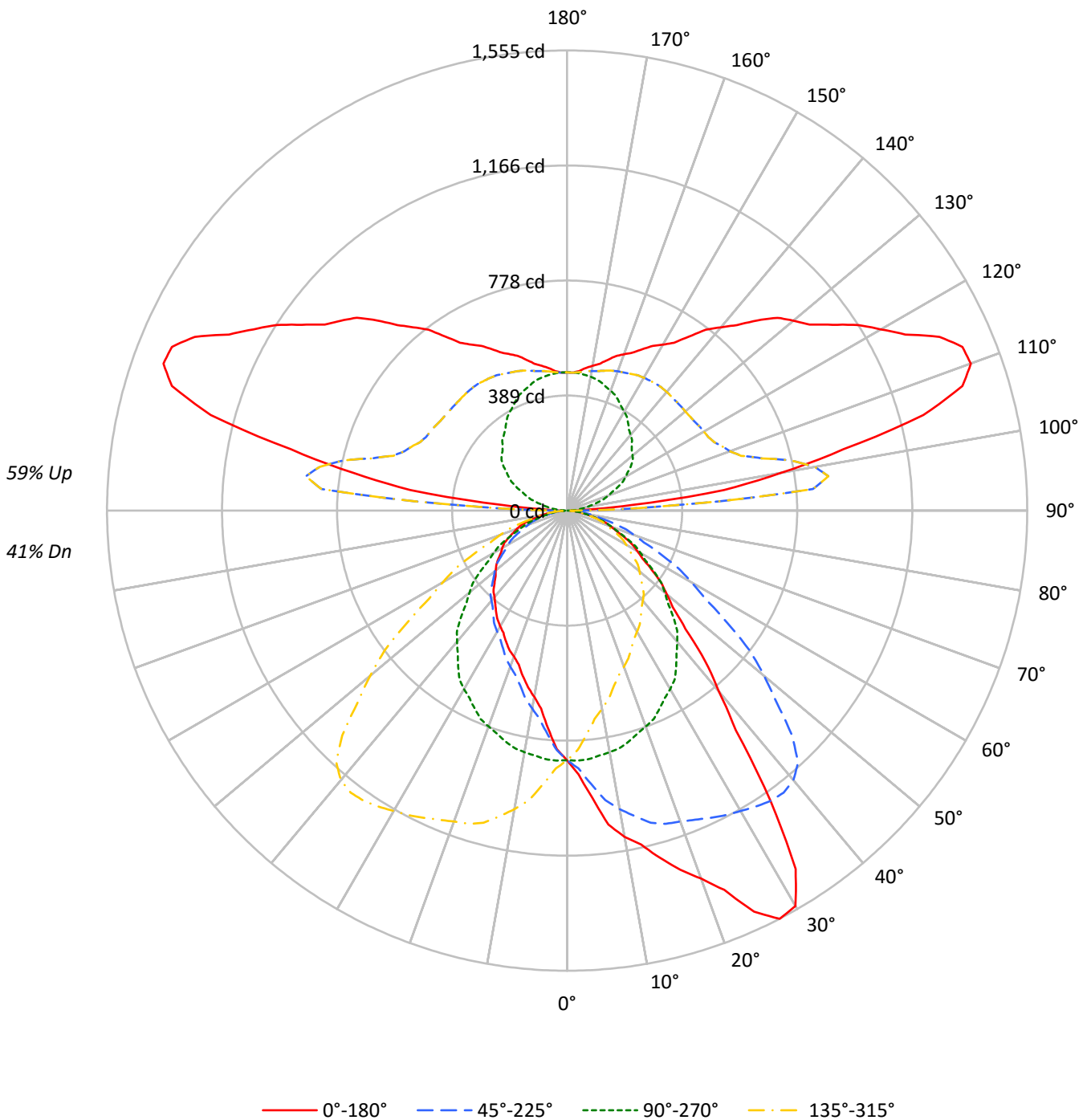
Lumens per Lamp: N/A  
Luminaire Lumens: 5882.8 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	92	88	84	87	84	80	78	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	63	58	72	65	58	54	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	30	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

**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	1.4
10°-20°	241.8	4.1
20°-30°	392.6	6.7
30°-40°	478.9	8.1
40°-50°	435.7	7.4
50°-60°	347.0	5.9
60°-70°	241.7	4.1
70°-80°	128.9	2.2
80°-90°	35.1	0.6
90°-100°	338.3	5.8
100°-110°	727.2	12.4
110°-120°	682.5	11.6
120°-130°	553.1	9.4
130°-140°	443.9	7.5
140°-150°	334.9	5.7
150°-160°	235.8	4.0
160°-170°	139.0	2.4
170°-180°	45.2	0.8
0°-30°	715.6	12.2
0°-40°	1194.5	20.3
0°-60°	1977.3	33.6
0°-90°	2383.0	40.5
90°-120°	1747.9	29.7
90°-150°	3079.8	52.4
90°-180°	3500.0	59.5
0°-180°	5882.8	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°	22	1	22	1	22	16
95°	221	31	221	31	221	313
105°	1247	106	1247	106	1247	1239
115°	1389	190	1389	190	1389	1357
125°	1094	263	1094	263	1094	990
135°	909	309	909	309	909	704
145°	717	359	717	359	717	456
155°	601	410	601	410	601	280
165°	527	448	527	448	527	151
175°	473	466	473	466	473	46
180°	467	467	467	467	467	



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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°	11.2	11.8	11.9	11.9	12.2	11.8	12.7	12.5	13.2	13.9	14.7
90°	21.7	21.7	20.7	20.7	20.7	18.9	17.9	17.0	16.0	15.1	13.2
92.5°	60.0	61.5	62.9	65.1	77.2	91.0	121.0	166.7	245.5	303.3	308.2
95°	221.1	236.2	243.7	271.9	338.7	417.7	533.5	676.6	815.8	833.7	680.3
97.5°	534.4	546.5	573.7	626.5	684.6	794.5	907.2	1007.6	1032.2	890.3	607.5
100°	734.0	748.9	783.8	851.5	916.4	1014.3	1111.3	1157.3	1084.9	849.6	542.0
102.5°	956.7	968.0	1005.9	1054.0	1123.4	1189.7	1236.1	1207.8	1053.3	778.2	492.3
105°	1246.7	1258.0	1276.9	1307.9	1337.9	1348.3	1306.9	1178.0	952.3	682.1	444.1
107.5°	1400.6	1408.2	1414.4	1414.6	1399.3	1350.2	1243.9	1071.9	849.0	616.1	423.8
110°	1451.8	1451.8	1445.2	1427.4	1385.1	1305.0	1172.3	993.6	790.3	585.2	417.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1445.8	1439.1	1422.7	1391.9	1330.1	1235.8	1101.6	931.9	746.7	567.2	417.7
115°	1388.8	1376.6	1350.2	1305.0	1231.6	1129.1	1000.2	854.3	699.1	547.6	420.6
117.5°	1288.8	1281.3	1255.2	1208.5	1135.1	1041.0	930.0	804.3	670.7	538.0	426.8
120°	1224.2	1216.6	1191.2	1146.0	1076.4	993.6	890.1	777.2	654.9	533.5	432.8
122.5°	1167.0	1160.2	1134.7	1093.3	1031.2	953.7	861.5	756.9	641.3	529.7	438.1
125°	1094.3	1084.9	1064.1	1025.6	972.9	905.1	823.3	727.4	622.9	525.0	447.0
127.5°	1032.2	1028.0	1008.4	974.4	926.6	863.2	786.8	697.2	606.0	522.7	456.9
130°	998.3	992.7	973.8	942.8	895.8	834.6	761.2	678.4	594.7	521.2	463.0
132.5°	964.4	958.0	940.8	909.6	862.6	803.7	737.1	659.6	585.6	521.2	469.7
135°	908.9	903.2	886.4	855.3	813.9	760.3	700.0	635.1	574.9	521.2	478.9
137.5°	849.6	843.5	827.8	799.6	762.5	717.0	666.9	614.4	565.3	522.4	487.4
140°	808.2	803.5	789.5	765.0	730.2	690.6	647.3	603.1	560.8	523.1	491.2
142.5°	769.9	765.9	752.5	731.9	702.3	668.1	630.7	593.3	557.0	523.9	493.4
145°	717.0	713.2	702.9	686.8	664.3	638.9	609.7	580.5	551.4	523.1	495.9
147.5°	672.2	670.5	664.5	651.7	633.8	614.6	592.2	568.5	545.5	520.7	496.8
150°	647.3	646.4	642.6	631.3	617.3	600.3	582.4	561.8	541.0	518.4	496.8
152.5°	627.7	626.8	623.1	614.1	602.2	589.0	572.6	554.2	535.7	515.5	496.1
155°	601.2	600.3	597.5	590.9	581.5	571.2	558.0	542.9	526.9	510.0	494.0
157.5°	577.5	577.7	575.0	569.7	562.3	554.2	544.0	531.6	518.6	504.4	491.5
160°	561.8	562.7	560.8	556.1	549.5	542.9	533.5	524.1	511.9	500.6	489.3
162.5°	547.4	547.6	547.2	543.3	538.2	532.3	524.4	515.9	505.9	496.1	487.0
165°	526.9	526.9	526.9	525.0	521.2	516.6	511.0	504.4	496.8	489.3	483.6
167.5°	508.1	508.3	509.1	507.4	505.5	502.1	497.8	493.4	488.0	482.7	478.3
170°	496.8	497.8	497.8	496.8	494.9	493.0	490.2	487.4	482.7	478.9	476.1
172.5°	486.3	487.2	488.7	487.0	486.6	485.5	483.4	480.6	477.4	474.4	473.1
175°	473.3	474.2	476.1	475.1	475.1	475.1	473.3	473.3	470.4	469.5	469.5
177.5°	466.7	466.7	468.9	468.2	468.9	468.9	468.9	468.2	467.4	466.7	466.7
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



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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°	15.1	14.1	12.7	11.5	9.7	8.5	7.8	7.9	7.3	7.4	8.0
90°	12.3	10.4	9.4	7.5	5.7	3.8	1.9	0.9	1.9	3.8	5.7
92.5°	214.7	128.6	77.2	49.7	33.5	21.9	13.9	11.5	13.9	21.9	33.5
95°	420.6	213.6	112.9	70.6	49.9	39.5	32.0	31.0	32.0	39.5	49.9
97.5°	335.7	184.1	117.4	86.9	68.3	58.0	52.7	51.6	52.7	58.0	68.3
100°	304.8	182.6	128.0	99.7	81.8	71.5	67.8	65.9	67.8	71.5	81.8
102.5°	292.1	189.4	140.7	113.3	96.9	85.8	82.8	81.7	82.8	85.8	96.9
105°	287.0	203.2	161.8	135.5	120.5	111.0	106.3	106.3	106.3	111.0	120.5
107.5°	295.7	223.9	183.9	160.1	144.5	136.8	132.3	130.4	132.3	136.8	144.5
110°	303.9	239.0	200.4	176.0	161.8	153.4	149.6	147.7	149.6	153.4	161.8





TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	314.4	253.3	216.2	192.5	178.4	169.9	166.9	165.0	166.9	169.9	178.4
115°	330.3	275.7	240.9	217.4	203.2	194.7	191.9	190.1	191.9	194.7	203.2
117.5°	348.4	298.7	265.7	243.0	227.0	218.5	215.5	212.6	215.5	218.5	227.0
120°	360.3	315.2	282.3	258.7	242.8	234.3	230.5	227.7	230.5	234.3	242.8
122.5°	373.9	331.0	298.1	274.6	257.0	248.5	245.5	243.6	245.5	248.5	257.0
125°	392.4	351.9	320.8	296.4	278.5	270.0	265.3	263.4	265.3	270.0	278.5
127.5°	409.3	372.0	342.1	317.6	298.7	287.9	281.9	279.1	281.9	287.9	298.7
130°	420.6	384.8	355.6	331.2	311.4	299.3	291.7	288.9	291.7	299.3	311.4
132.5°	430.4	396.9	367.7	343.3	322.7	309.0	299.9	296.4	299.9	309.0	322.7
135°	444.1	413.0	383.9	358.4	338.7	323.7	312.4	308.6	312.4	323.7	338.7
137.5°	454.3	424.5	398.0	371.8	352.5	337.4	326.9	324.0	326.9	337.4	352.5
140°	461.1	432.8	405.6	380.1	362.2	347.2	335.9	333.1	335.9	347.2	362.2
142.5°	464.8	438.1	412.3	388.4	371.3	356.2	345.7	343.7	345.7	356.2	371.3
145°	470.4	447.0	422.4	400.9	383.9	370.7	361.3	359.4	361.3	370.7	383.9
147.5°	473.8	452.6	431.1	412.1	397.5	385.2	377.1	376.0	377.1	385.2	397.5
150°	476.1	456.4	435.6	419.6	406.5	394.3	387.7	385.8	387.7	394.3	406.5
152.5°	477.6	460.1	440.9	426.4	414.0	403.3	397.5	396.3	397.5	403.3	414.0
155°	478.9	463.8	447.9	434.7	425.3	415.8	410.2	410.2	410.2	415.8	425.3
157.5°	479.8	467.0	453.4	443.4	435.1	427.0	422.4	422.6	422.4	427.0	435.1
160°	479.8	468.5	456.4	447.9	440.4	433.8	430.0	430.9	430.0	433.8	440.4
162.5°	479.1	470.0	459.4	452.4	446.4	440.5	436.8	437.7	436.8	440.5	446.4
165°	478.0	470.4	463.0	457.3	453.6	448.8	446.0	447.9	446.0	448.8	453.6
167.5°	475.7	470.4	464.2	460.7	458.1	455.4	453.7	454.7	453.7	455.4	458.1
170°	474.2	470.4	465.7	463.0	461.1	459.2	458.3	459.2	458.3	459.2	461.1
172.5°	472.7	469.7	465.7	464.4	463.3	461.5	460.5	462.2	460.5	461.5	463.3
175°	470.4	468.5	465.7	465.7	465.7	464.8	463.8	465.7	463.8	464.8	465.7
177.5°	468.2	467.4	465.9	465.9	466.7	465.9	465.9	467.4	465.9	465.9	466.7
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-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°	8.7	9.6	9.5	10.2	10.4	11.3	11.2	12.5	13.3	14.0	14.1
90°	7.5	9.4	10.4	12.3	13.2	15.1	16.0	17.0	17.9	18.9	20.7
92.5°	49.7	77.2	128.6	214.7	308.2	303.3	245.5	166.7	121.0	91.0	77.2
95°	70.6	112.9	213.6	420.6	680.3	833.7	815.8	676.6	533.5	417.7	338.7
97.5°	86.9	117.4	184.1	335.7	607.5	890.3	1032.2	1007.6	907.2	794.5	684.6
100°	99.7	128.0	182.6	304.8	542.0	849.6	1084.9	1157.3	1111.3	1014.3	916.4
102.5°	113.3	140.7	189.4	292.1	492.3	778.2	1053.3	1207.8	1236.1	1189.7	1123.4
105°	135.5	161.8	203.2	287.0	444.1	682.1	952.3	1178.0	1306.9	1348.3	1337.9
107.5°	160.1	183.9	223.9	295.7	423.8	616.1	849.0	1071.9	1243.9	1350.2	1399.3
110°	176.0	200.4	239.0	303.9	417.7	585.2	790.3	993.6	1172.3	1305.0	1385.1



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	192.5	216.2	253.3	314.4	417.7	567.2	746.7	931.9	1101.6	1235.8	1330.1
115°	217.4	240.9	275.7	330.3	420.6	547.6	699.1	854.3	1000.2	1129.1	1231.6
117.5°	243.0	265.7	298.7	348.4	426.8	538.0	670.7	804.3	930.0	1041.0	1135.1
120°	258.7	282.3	315.2	360.3	432.8	533.5	654.9	777.2	890.1	993.6	1076.4
122.5°	274.6	298.1	331.0	373.9	438.1	529.7	641.3	756.9	861.5	953.7	1031.2
125°	296.4	320.8	351.9	392.4	447.0	525.0	622.9	727.4	823.3	905.1	972.9
127.5°	317.6	342.1	372.0	409.3	456.9	522.7	606.0	697.2	786.8	863.2	926.6
130°	331.2	355.6	384.8	420.6	463.0	521.2	594.7	678.4	761.2	834.6	895.8
132.5°	343.3	367.7	396.9	430.4	469.7	521.2	585.6	659.6	737.1	803.7	862.6
135°	358.4	383.9	413.0	444.1	478.9	521.2	574.9	635.1	700.0	760.3	813.9
137.5°	371.8	398.0	424.5	454.3	487.4	522.4	565.3	614.4	666.9	717.0	762.5
140°	380.1	405.6	432.8	461.1	491.2	523.1	560.8	603.1	647.3	690.6	730.2
142.5°	388.4	412.3	438.1	464.8	493.4	523.9	557.0	593.3	630.7	668.1	702.3
145°	400.9	422.4	447.0	470.4	495.9	523.1	551.4	580.5	609.7	638.9	664.3
147.5°	412.1	431.1	452.6	473.8	496.8	520.7	545.5	568.5	592.2	614.6	633.8
150°	419.6	435.6	456.4	476.1	496.8	518.4	541.0	561.8	582.4	600.3	617.3
152.5°	426.4	440.9	460.1	477.6	496.1	515.5	535.7	554.2	572.6	589.0	602.2
155°	434.7	447.9	463.8	478.9	494.0	510.0	526.9	542.9	558.0	571.2	581.5
157.5°	443.4	453.4	467.0	479.8	491.5	504.4	518.6	531.6	544.0	554.2	562.3
160°	447.9	456.4	468.5	479.8	489.3	500.6	511.9	524.1	533.5	542.9	549.5
162.5°	452.4	459.4	470.0	479.1	487.0	496.1	505.9	515.9	524.4	532.3	538.2
165°	457.3	463.0	470.4	478.0	483.6	489.3	496.8	504.4	511.0	516.6	521.2
167.5°	460.7	464.2	470.4	475.7	478.3	482.7	488.0	493.4	497.8	502.1	505.5
170°	463.0	465.7	470.4	474.2	476.1	478.9	482.7	487.4	490.2	493.0	494.9
172.5°	464.4	465.7	469.7	472.7	473.1	474.4	477.4	480.6	483.4	485.5	486.6
175°	465.7	465.7	468.5	470.4	469.5	469.5	470.4	473.3	473.3	475.1	475.1
177.5°	465.9	465.9	467.4	468.2	466.7	466.7	467.4	468.2	468.9	468.9	468.9
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-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°	14.7	14.4	14.6	15.2	14.6	14.4	14.7	14.1	14.0	13.3	12.5
90°	20.7	20.7	21.7	21.7	21.7	20.7	20.7	20.7	18.9	17.9	17.0
92.5°	65.1	62.9	61.5	60.0	61.5	62.9	65.1	77.2	91.0	121.0	166.7
95°	271.9	243.7	236.2	221.1	236.2	243.7	271.9	338.7	417.7	533.5	676.6
97.5°	626.5	573.7	546.5	534.4	546.5	573.7	626.5	684.6	794.5	907.2	1007.6
100°	851.5	783.8	748.9	734.0	748.9	783.8	851.5	916.4	1014.3	1111.3	1157.3
102.5°	1054.0	1005.9	968.0	956.7	968.0	1005.9	1054.0	1123.4	1189.7	1236.1	1207.8
105°	1307.9	1276.9	1258.0	1246.7	1258.0	1276.9	1307.9	1337.9	1348.3	1306.9	1178.0
107.5°	1414.6	1414.4	1408.2	1400.6	1408.2	1414.4	1414.6	1399.3	1350.2	1243.9	1071.9
110°	1427.4	1445.2	1451.8	1451.8	1451.8	1445.2	1427.4	1385.1	1305.0	1172.3	993.6



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1391.9	1422.7	1439.1	1445.8	1439.1	1422.7	1391.9	1330.1	1235.8	1101.6	931.9
115°	1305.0	1350.2	1376.6	1388.8	1376.6	1350.2	1305.0	1231.6	1129.1	1000.2	854.3
117.5°	1208.5	1255.2	1281.3	1288.8	1281.3	1255.2	1208.5	1135.1	1041.0	930.0	804.3
120°	1146.0	1191.2	1216.6	1224.2	1216.6	1191.2	1146.0	1076.4	993.6	890.1	777.2
122.5°	1093.3	1134.7	1160.2	1167.0	1160.2	1134.7	1093.3	1031.2	953.7	861.5	756.9
125°	1025.6	1064.1	1084.9	1094.3	1084.9	1064.1	1025.6	972.9	905.1	823.3	727.4
127.5°	974.4	1008.4	1028.0	1032.2	1028.0	1008.4	974.4	926.6	863.2	786.8	697.2
130°	942.8	973.8	992.7	998.3	992.7	973.8	942.8	895.8	834.6	761.2	678.4
132.5°	909.6	940.8	958.0	964.4	958.0	940.8	909.6	862.6	803.7	737.1	659.6
135°	855.3	886.4	903.2	908.9	903.2	886.4	855.3	813.9	760.3	700.0	635.1
137.5°	799.6	827.8	843.5	849.6	843.5	827.8	799.6	762.5	717.0	666.9	614.4
140°	765.0	789.5	803.5	808.2	803.5	789.5	765.0	730.2	690.6	647.3	603.1
142.5°	731.9	752.5	765.9	769.9	765.9	752.5	731.9	702.3	668.1	630.7	593.3
145°	686.8	702.9	713.2	717.0	713.2	702.9	686.8	664.3	638.9	609.7	580.5
147.5°	651.7	664.5	670.5	672.2	670.5	664.5	651.7	633.8	614.6	592.2	568.5
150°	631.3	642.6	646.4	647.3	646.4	642.6	631.3	617.3	600.3	582.4	561.8
152.5°	614.1	623.1	626.8	627.7	626.8	623.1	614.1	602.2	589.0	572.6	554.2
155°	590.9	597.5	600.3	601.2	600.3	597.5	590.9	581.5	571.2	558.0	542.9
157.5°	569.7	575.0	577.7	577.5	577.7	575.0	569.7	562.3	554.2	544.0	531.6
160°	556.1	560.8	562.7	561.8	562.7	560.8	556.1	549.5	542.9	533.5	524.1
162.5°	543.3	547.2	547.6	547.4	547.6	547.2	543.3	538.2	532.3	524.4	515.9
165°	525.0	526.9	526.9	526.9	526.9	526.9	525.0	521.2	516.6	511.0	504.4
167.5°	507.4	509.1	508.3	508.1	508.3	509.1	507.4	505.5	502.1	497.8	493.4
170°	496.8	497.8	497.8	496.8	497.8	497.8	496.8	494.9	493.0	490.2	487.4
172.5°	487.0	488.7	487.2	486.3	487.2	488.7	487.0	486.6	485.5	483.4	480.6
175°	475.1	476.1	474.2	473.3	474.2	476.1	475.1	475.1	475.1	473.3	473.3
177.5°	468.2	468.9	466.7	466.7	466.7	468.9	468.2	468.9	468.9	468.9	468.2
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-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°	11.2	11.3	10.4	10.2	9.5	9.6	8.7	8.0	7.4	7.3	7.9
90°	16.0	15.1	13.2	12.3	10.4	9.4	7.5	5.7	3.8	1.9	0.9
92.5°	245.5	303.3	308.2	214.7	128.6	77.2	49.7	33.5	21.9	13.9	11.5
95°	815.8	833.7	680.3	420.6	213.6	112.9	70.6	49.9	39.5	32.0	31.0
97.5°	1032.2	890.3	607.5	335.7	184.1	117.4	86.9	68.3	58.0	52.7	51.6
100°	1084.9	849.6	542.0	304.8	182.6	128.0	99.7	81.8	71.5	67.8	65.9
102.5°	1053.3	778.2	492.3	292.1	189.4	140.7	113.3	96.9	85.8	82.8	81.7
105°	952.3	682.1	444.1	287.0	203.2	161.8	135.5	120.5	111.0	106.3	106.3
107.5°	849.0	616.1	423.8	295.7	223.9	183.9	160.1	144.5	136.8	132.3	130.4
110°	790.3	585.2	417.7	303.9	239.0	200.4	176.0	161.8	153.4	149.6	147.7



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	746.7	567.2	417.7	314.4	253.3	216.2	192.5	178.4	169.9	166.9	165.0
115°	699.1	547.6	420.6	330.3	275.7	240.9	217.4	203.2	194.7	191.9	190.1
117.5°	670.7	538.0	426.8	348.4	298.7	265.7	243.0	227.0	218.5	215.5	212.6
120°	654.9	533.5	432.8	360.3	315.2	282.3	258.7	242.8	234.3	230.5	227.7
122.5°	641.3	529.7	438.1	373.9	331.0	298.1	274.6	257.0	248.5	245.5	243.6
125°	622.9	525.0	447.0	392.4	351.9	320.8	296.4	278.5	270.0	265.3	263.4
127.5°	606.0	522.7	456.9	409.3	372.0	342.1	317.6	298.7	287.9	281.9	279.1
130°	594.7	521.2	463.0	420.6	384.8	355.6	331.2	311.4	299.3	291.7	288.9
132.5°	585.6	521.2	469.7	430.4	396.9	367.7	343.3	322.7	309.0	299.9	296.4
135°	574.9	521.2	478.9	444.1	413.0	383.9	358.4	338.7	323.7	312.4	308.6
137.5°	565.3	522.4	487.4	454.3	424.5	398.0	371.8	352.5	337.4	326.9	324.0
140°	560.8	523.1	491.2	461.1	432.8	405.6	380.1	362.2	347.2	335.9	333.1
142.5°	557.0	523.9	493.4	464.8	438.1	412.3	388.4	371.3	356.2	345.7	343.7
145°	551.4	523.1	495.9	470.4	447.0	422.4	400.9	383.9	370.7	361.3	359.4
147.5°	545.5	520.7	496.8	473.8	452.6	431.1	412.1	397.5	385.2	377.1	376.0
150°	541.0	518.4	496.8	476.1	456.4	435.6	419.6	406.5	394.3	387.7	385.8
152.5°	535.7	515.5	496.1	477.6	460.1	440.9	426.4	414.0	403.3	397.5	396.3
155°	526.9	510.0	494.0	478.9	463.8	447.9	434.7	425.3	415.8	410.2	410.2
157.5°	518.6	504.4	491.5	479.8	467.0	453.4	443.4	435.1	427.0	422.4	422.6
160°	511.9	500.6	489.3	479.8	468.5	456.4	447.9	440.4	433.8	430.0	430.9
162.5°	505.9	496.1	487.0	479.1	470.0	459.4	452.4	446.4	440.5	436.8	437.7
165°	496.8	489.3	483.6	478.0	470.4	463.0	457.3	453.6	448.8	446.0	447.9
167.5°	488.0	482.7	478.3	475.7	470.4	464.2	460.7	458.1	455.4	453.7	454.7
170°	482.7	478.9	476.1	474.2	470.4	465.7	463.0	461.1	459.2	458.3	459.2
172.5°	477.4	474.4	473.1	472.7	469.7	465.7	464.4	463.3	461.5	460.5	462.2
175°	470.4	469.5	469.5	470.4	468.5	465.7	465.7	465.7	464.8	463.8	465.7
177.5°	467.4	466.7	466.7	468.2	467.4	465.9	465.9	466.7	465.9	465.9	467.4
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



TEST NUMBER: P333189-830

CATALOG NUMBER: S125DIP-S610D1035U830-4F0-1E-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°	7.8	8.5	9.7	11.5	12.7	14.1	15.1	14.7	13.9	13.2	12.5
90°	1.9	3.8	5.7	7.5	9.4	10.4	12.3	13.2	15.1	16.0	17.0
92.5°	13.9	21.9	33.5	49.7	77.2	128.6	214.7	308.2	303.3	245.5	166.7
95°	32.0	39.5	49.9	70.6	112.9	213.6	420.6	680.3	833.7	815.8	676.6
97.5°	52.7	58.0	68.3	86.9	117.4	184.1	335.7	607.5	890.3	1032.2	1007.6
100°	67.8	71.5	81.8	99.7	128.0	182.6	304.8	542.0	849.6	1084.9	1157.3
102.5°	82.8	85.8	96.9	113.3	140.7	189.4	292.1	492.3	778.2	1053.3	1207.8
105°	106.3	111.0	120.5	135.5	161.8	203.2	287.0	444.1	682.1	952.3	1178.0
107.5°	132.3	136.8	144.5	160.1	183.9	223.9	295.7	423.8	616.1	849.0	1071.9
110°	149.6	153.4	161.8	176.0	200.4	239.0	303.9	417.7	585.2	790.3	993.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	166.9	169.9	178.4	192.5	216.2	253.3	314.4	417.7	567.2	746.7	931.9
115°	191.9	194.7	203.2	217.4	240.9	275.7	330.3	420.6	547.6	699.1	854.3
117.5°	215.5	218.5	227.0	243.0	265.7	298.7	348.4	426.8	538.0	670.7	804.3
120°	230.5	234.3	242.8	258.7	282.3	315.2	360.3	432.8	533.5	654.9	777.2
122.5°	245.5	248.5	257.0	274.6	298.1	331.0	373.9	438.1	529.7	641.3	756.9
125°	265.3	270.0	278.5	296.4	320.8	351.9	392.4	447.0	525.0	622.9	727.4
127.5°	281.9	287.9	298.7	317.6	342.1	372.0	409.3	456.9	522.7	606.0	697.2
130°	291.7	299.3	311.4	331.2	355.6	384.8	420.6	463.0	521.2	594.7	678.4
132.5°	299.9	309.0	322.7	343.3	367.7	396.9	430.4	469.7	521.2	585.6	659.6
135°	312.4	323.7	338.7	358.4	383.9	413.0	444.1	478.9	521.2	574.9	635.1
137.5°	326.9	337.4	352.5	371.8	398.0	424.5	454.3	487.4	522.4	565.3	614.4
140°	335.9	347.2	362.2	380.1	405.6	432.8	461.1	491.2	523.1	560.8	603.1
142.5°	345.7	356.2	371.3	388.4	412.3	438.1	464.8	493.4	523.9	557.0	593.3
145°	361.3	370.7	383.9	400.9	422.4	447.0	470.4	495.9	523.1	551.4	580.5
147.5°	377.1	385.2	397.5	412.1	431.1	452.6	473.8	496.8	520.7	545.5	568.5
150°	387.7	394.3	406.5	419.6	435.6	456.4	476.1	496.8	518.4	541.0	561.8
152.5°	397.5	403.3	414.0	426.4	440.9	460.1	477.6	496.1	515.5	535.7	554.2
155°	410.2	415.8	425.3	434.7	447.9	463.8	478.9	494.0	510.0	526.9	542.9
157.5°	422.4	427.0	435.1	443.4	453.4	467.0	479.8	491.5	504.4	518.6	531.6
160°	430.0	433.8	440.4	447.9	456.4	468.5	479.8	489.3	500.6	511.9	524.1
162.5°	436.8	440.5	446.4	452.4	459.4	470.0	479.1	487.0	496.1	505.9	515.9
165°	446.0	448.8	453.6	457.3	463.0	470.4	478.0	483.6	489.3	496.8	504.4
167.5°	453.7	455.4	458.1	460.7	464.2	470.4	475.7	478.3	482.7	488.0	493.4
170°	458.3	459.2	461.1	463.0	465.7	470.4	474.2	476.1	478.9	482.7	487.4
172.5°	460.5	461.5	463.3	464.4	465.7	469.7	472.7	473.1	474.4	477.4	480.6
175°	463.8	464.8	465.7	465.7	465.7	468.5	470.4	469.5	469.5	470.4	473.3
177.5°	465.9	465.9	466.7	465.9	465.9	467.4	468.2	466.7	466.7	467.4	468.2
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7



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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°	12.7	11.8	12.2	11.9	11.9	11.8	11.2
90°	17.9	18.9	20.7	20.7	20.7	21.7	21.7
92.5°	121.0	91.0	77.2	65.1	62.9	61.5	60.0
95°	533.5	417.7	338.7	271.9	243.7	236.2	221.1
97.5°	907.2	794.5	684.6	626.5	573.7	546.5	534.4
100°	1111.3	1014.3	916.4	851.5	783.8	748.9	734.0
102.5°	1236.1	1189.7	1123.4	1054.0	1005.9	968.0	956.7
105°	1306.9	1348.3	1337.9	1307.9	1276.9	1258.0	1246.7
107.5°	1243.9	1350.2	1399.3	1414.6	1414.4	1408.2	1400.6
110°	1172.3	1305.0	1385.1	1427.4	1445.2	1451.8	1451.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1101.6	1235.8	1330.1	1391.9	1422.7	1439.1	1445.8
115°	1000.2	1129.1	1231.6	1305.0	1350.2	1376.6	1388.8
117.5°	930.0	1041.0	1135.1	1208.5	1255.2	1281.3	1288.8
120°	890.1	993.6	1076.4	1146.0	1191.2	1216.6	1224.2
122.5°	861.5	953.7	1031.2	1093.3	1134.7	1160.2	1167.0
125°	823.3	905.1	972.9	1025.6	1064.1	1084.9	1094.3
127.5°	786.8	863.2	926.6	974.4	1008.4	1028.0	1032.2
130°	761.2	834.6	895.8	942.8	973.8	992.7	998.3
132.5°	737.1	803.7	862.6	909.6	940.8	958.0	964.4
135°	700.0	760.3	813.9	855.3	886.4	903.2	908.9
137.5°	666.9	717.0	762.5	799.6	827.8	843.5	849.6
140°	647.3	690.6	730.2	765.0	789.5	803.5	808.2
142.5°	630.7	668.1	702.3	731.9	752.5	765.9	769.9
145°	609.7	638.9	664.3	686.8	702.9	713.2	717.0
147.5°	592.2	614.6	633.8	651.7	664.5	670.5	672.2
150°	582.4	600.3	617.3	631.3	642.6	646.4	647.3
152.5°	572.6	589.0	602.2	614.1	623.1	626.8	627.7
155°	558.0	571.2	581.5	590.9	597.5	600.3	601.2
157.5°	544.0	554.2	562.3	569.7	575.0	577.7	577.5
160°	533.5	542.9	549.5	556.1	560.8	562.7	561.8
162.5°	524.4	532.3	538.2	543.3	547.2	547.6	547.4
165°	511.0	516.6	521.2	525.0	526.9	526.9	526.9
167.5°	497.8	502.1	505.5	507.4	509.1	508.3	508.1
170°	490.2	493.0	494.9	496.8	497.8	497.8	496.8
172.5°	483.4	485.5	486.6	487.0	488.7	487.2	486.3
175°	473.3	475.1	475.1	475.1	476.1	474.2	473.3
177.5°	468.9	468.9	468.9	468.2	468.9	466.7	466.7
180°	466.7	466.7	466.7	466.7	466.7	466.7	466.7

(END OF REPORT)