

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: P331939-830

Luminaire Tested: **S123DIP-S560D1025U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331939-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1025U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5749.1 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

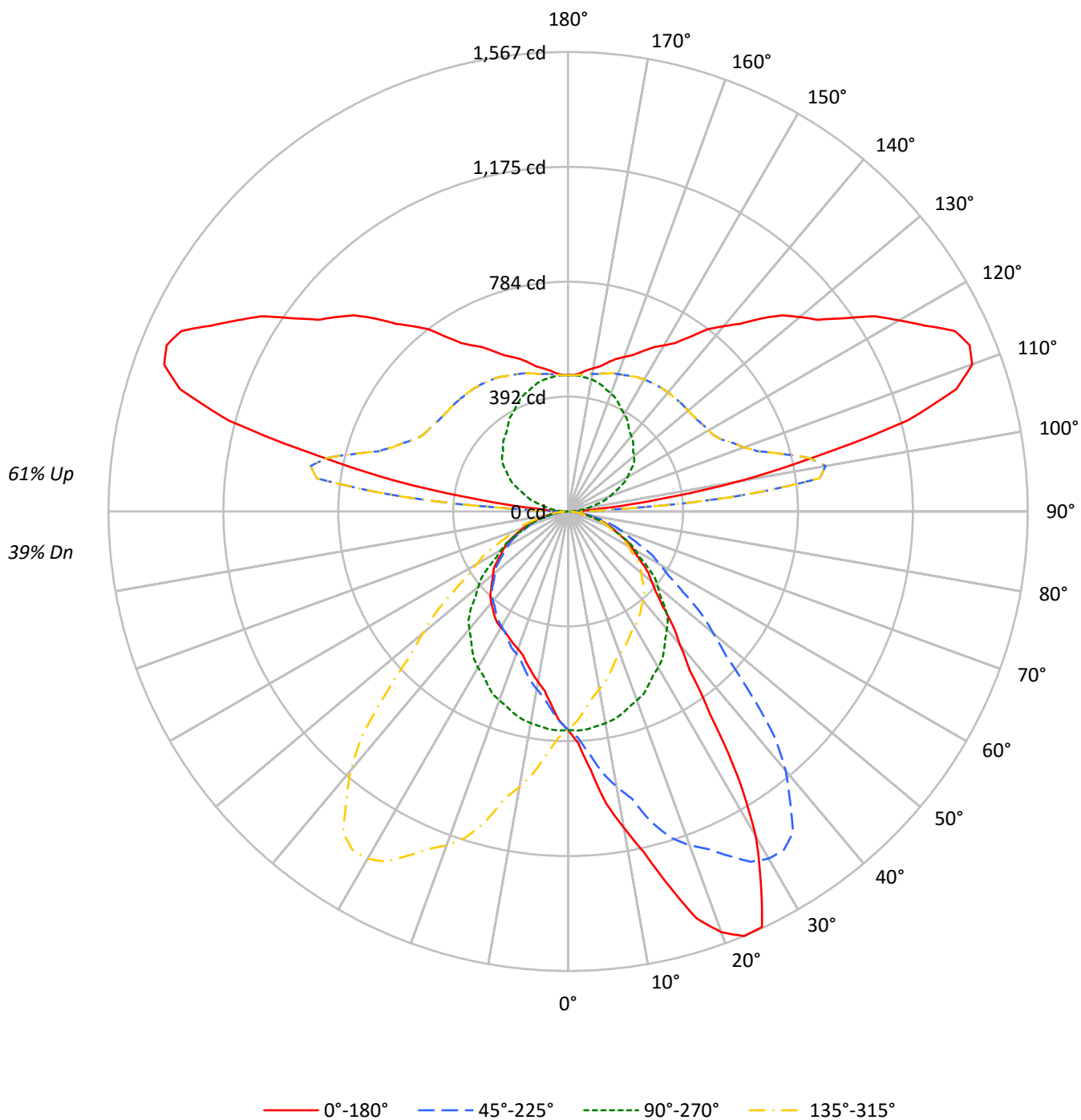
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8020	8020	8020	8020
5°	9564	8055	7138	8055
10°	11970	8014	6446	8014
15°	14683	7949	6002	7949
20°	17491	7848	5715	7848
25°	18573	7726	5651	7726
30°	15919	7636	5680	7636
35°	11071	7510	5740	7510
40°	8338	7360	5722	7360
45°	6925	7138	5649	7138
50°	6203	6687	5598	6687
55°	5799	6199	5527	6199
60°	5440	5690	5470	5690
65°	5112	5186	5295	5186
70°	4793	4614	5042	4614
75°	4292	4038	4625	4038
80°	3756	3310	3986	3310
85°	2939	2408	2680	2408

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.3
10°-20°	235.3	4.1
20°-30°	395.0	6.9
30°-40°	447.2	7.8
40°-50°	401.1	7.0
50°-60°	323.7	5.6
60°-70°	225.5	3.9
70°-80°	118.5	2.1
80°-90°	32.6	0.6
90°-100°	258.6	4.5
100°-110°	732.4	12.7
110°-120°	720.5	12.5
120°-130°	574.7	10.0
130°-140°	453.1	7.9
140°-150°	338.2	5.9
150°-160°	235.7	4.1
160°-170°	138.5	2.4
170°-180°	45.1	0.8
0°-30°	703.7	12.2
0°-40°	1151.0	20.0
0°-60°	1875.7	32.6
0°-90°	2252.4	39.2
90°-120°	1711.5	29.8
90°-150°	3077.4	53.5
90°-180°	3497.0	60.8
0°-180°	5749.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	745	745	745	745	745	
5°	885	746	661	746	885	92
15°	1318	713	539	713	1318	380
25°	1564	650	476	650	1564	686
35°	842	572	437	572	842	547
45°	455	469	371	469	455	360
55°	309	330	294	330	309	277
65°	201	204	208	204	201	200
75°	103	97	111	97	103	110
85°	24	20	22	20	24	29
90°	27	2	27	2	27	16
95°	109	32	109	32	109	197
105°	1197	109	1197	109	1197	1181
115°	1456	193	1456	193	1456	1414
125°	1148	268	1148	268	1148	1040
135°	930	314	930	314	930	722
145°	727	358	727	358	727	463
155°	603	407	603	407	603	281
165°	526	445	526	445	526	150
175°	473	464	473	464	473	46
180°	465	465	465	465	465	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	790.7	790.1	788.7	789.9	787.5	784.4	784.1	781.2	772.8	772.2	770.0
5°	885.1	882.2	881.9	881.6	876.5	869.6	856.6	855.5	838.2	829.5	819.1
7.5°	1007.5	1009.0	1003.7	999.1	983.6	973.5	959.5	941.7	920.4	898.8	884.4
10°	1095.2	1107.1	1092.3	1082.2	1072.9	1055.2	1034.6	1009.0	983.4	953.4	930.7
12.5°	1189.4	1195.2	1192.3	1182.7	1168.2	1141.2	1104.8	1076.6	1052.9	1003.1	982.9
15°	1317.6	1339.6	1325.6	1293.1	1293.8	1268.2	1220.5	1168.2	1140.4	1096.6	1037.1
17.5°	1454.2	1457.0	1451.0	1423.9	1405.8	1370.6	1326.6	1276.5	1220.1	1167.3	1104.1
20°	1527.0	1524.8	1512.2	1498.1	1467.1	1439.6	1391.6	1335.7	1263.5	1211.4	1142.6
22.5°	1567.4	1563.8	1557.8	1546.1	1520.2	1490.7	1447.7	1386.5	1317.8	1246.1	1166.5
25°	1563.8	1568.5	1569.2	1565.9	1557.0	1539.3	1505.3	1456.6	1388.0	1296.0	1213.0
27.5°	1422.3	1428.9	1448.2	1465.4	1484.5	1503.9	1501.4	1477.2	1426.4	1346.9	1245.4
30°	1280.8	1266.3	1302.1	1347.2	1377.9	1432.0	1462.4	1464.1	1435.7	1367.4	1268.5
32.5°	1084.4	1100.3	1116.1	1171.6	1238.7	1299.5	1359.8	1408.4	1414.0	1368.6	1282.0
35°	842.5	862.4	891.3	920.2	992.4	1054.4	1160.6	1253.0	1326.6	1336.3	1283.3
37.5°	678.9	688.8	707.0	735.9	783.2	856.9	939.0	1055.7	1162.4	1241.8	1245.3
40°	593.4	596.3	616.9	638.9	677.2	737.8	811.9	915.1	1042.9	1153.8	1200.0
42.5°	529.3	535.7	544.4	565.6	596.1	641.7	710.5	795.9	912.9	1040.5	1130.9
45°	454.9	462.0	467.5	481.5	503.2	533.9	581.9	659.9	749.0	880.8	1002.5
47.5°	405.6	406.1	410.2	420.8	435.5	458.6	492.6	542.6	624.5	731.3	856.3
50°	370.4	376.2	377.6	385.9	397.5	414.4	442.6	485.1	552.3	646.2	761.0
52.5°	345.5	347.2	351.3	357.3	367.4	380.6	405.0	438.4	491.1	571.1	676.7
55°	309.0	309.0	313.0	317.6	323.5	335.4	351.6	376.2	416.2	478.3	565.7
57.5°	275.2	277.0	279.8	281.3	286.2	294.1	307.6	326.3	356.2	404.0	473.4
60°	252.7	255.9	255.6	258.4	262.8	268.9	280.5	295.7	322.3	360.6	419.1
62.5°	233.1	232.8	232.8	236.2	240.5	246.4	253.9	267.0	289.7	323.7	373.4
65°	200.7	200.0	202.6	204.7	206.1	210.5	216.2	227.8	243.0	268.2	306.8
67.5°	172.0	169.8	171.3	172.0	174.5	177.9	183.2	190.4	202.5	222.7	251.8
70°	152.3	150.5	150.1	150.9	153.1	155.6	159.6	166.5	177.6	193.9	215.2
72.5°	132.1	130.9	130.8	132.4	133.5	135.1	137.9	144.2	153.1	165.2	185.1
75°	103.2	103.2	103.2	103.6	104.7	106.1	108.3	111.5	118.4	127.1	140.4
77.5°	77.4	77.3	76.9	76.8	78.4	79.1	79.6	82.6	86.4	92.3	102.0
80°	60.6	58.8	59.6	60.6	61.4	61.7	62.8	63.5	66.8	70.0	76.9
82.5°	45.1	43.5	43.6	45.3	45.5	45.8	46.9	48.0	49.2	52.1	55.8
85°	23.8	23.8	24.2	24.2	24.5	24.2	25.3	25.6	25.6	27.4	29.6
87.5°	14.1	13.8	13.9	13.9	13.9	13.8	13.9	13.9	14.0	14.5	14.2
90°	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6	22.6	23.6	20.7
92.5°	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2	109.1	144.7	159.2
95°	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7	452.5	557.9	496.7
97.5°	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3	925.0	864.6	633.0
100°	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3	1076.3	891.0	602.1
102.5°	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3	1083.8	842.1	556.9
105°	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0	1026.4	756.4	501.4
107.5°	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0	926.0	680.8	466.1
110°	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2	862.7	637.9	452.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1	807.8	609.3	445.0
115°	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4	741.4	578.6	442.1
117.5°	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3	701.3	560.5	443.8
120°	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8	680.2	552.2	446.9
122.5°	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0	662.9	547.0	452.1
125°	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0	640.7	540.1	460.1
127.5°	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6	621.1	536.7	469.1
130°	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3	610.6	534.4	475.1
132.5°	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5	600.8	533.7	479.7
135°	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0	588.1	532.5	486.4
137.5°	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9	576.9	530.5	490.9
140°	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3	570.1	529.7	493.9
142.5°	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5	564.1	528.2	496.2
145°	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2	556.0	525.9	497.7
147.5°	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5	548.1	522.4	497.7
150°	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5	542.8	519.3	497.7
152.5°	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2	536.9	515.6	495.4
155°	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8	527.8	509.0	492.9
157.5°	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7	517.6	503.1	489.8
160°	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1	510.9	498.6	488.3
162.5°	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1	504.1	494.1	485.3
165°	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4	494.8	487.4	480.8
167.5°	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2	486.1	480.6	476.3
170°	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5	480.8	476.1	473.3
172.5°	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5	475.5	472.3	471.0
175°	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4	469.5	467.6	467.6
177.5°	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3	465.5	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	768.2	765.9	763.6	759.5	756.0	751.1	749.7	748.0	742.8	738.1	734.7
5°	815.1	806.4	793.8	782.2	772.9	760.3	753.0	745.5	734.6	724.9	716.9
7.5°	864.2	847.2	827.6	806.3	786.6	767.4	752.1	738.4	723.2	708.8	697.7
10°	903.2	878.6	851.2	821.6	796.4	771.8	751.2	733.2	713.7	696.7	682.6
12.5°	947.6	911.3	873.5	837.4	807.6	773.5	748.7	725.7	703.6	683.2	667.3
15°	1000.3	954.1	909.4	859.9	814.4	771.8	742.2	713.3	687.7	666.8	646.5
17.5°	1048.2	995.9	936.9	876.8	821.9	771.4	729.9	697.3	665.2	639.6	619.4
20°	1075.3	1015.8	949.0	886.6	826.0	769.6	724.2	685.1	650.5	623.4	600.7
22.5°	1098.8	1029.1	960.0	893.2	825.7	765.0	713.5	673.4	635.7	609.3	585.1
25°	1123.0	1039.6	970.3	892.0	816.5	753.8	696.0	650.5	612.9	581.9	557.0
27.5°	1143.9	1039.0	956.7	872.4	802.3	739.3	677.7	628.9	589.0	555.3	530.0
30°	1157.7	1040.4	942.5	859.1	788.4	723.4	663.5	614.4	572.5	538.2	514.4
32.5°	1166.4	1039.5	929.5	840.7	766.5	709.0	648.2	597.4	554.3	520.7	497.7
35°	1171.4	1033.1	907.2	802.5	731.0	675.0	624.2	571.5	526.3	494.9	468.9
37.5°	1161.3	1019.8	881.2	765.6	687.4	632.4	589.5	544.6	501.4	466.8	444.4
40°	1145.4	1011.2	860.9	739.7	657.3	604.3	567.9	523.8	481.2	448.4	427.4
42.5°	1115.1	993.5	838.8	710.8	626.1	573.1	539.5	502.8	462.4	431.6	410.7
45°	1041.1	955.2	805.4	667.5	580.1	525.3	495.7	468.9	432.4	402.5	384.5
47.5°	938.4	897.5	757.1	621.8	532.1	479.3	448.5	427.0	400.3	376.2	358.8
50°	867.1	850.2	724.5	590.6	499.9	448.4	418.8	399.3	380.1	355.9	340.1
52.5°	784.8	795.2	686.4	558.3	467.3	416.6	388.7	373.2	355.9	336.0	322.2
55°	668.9	706.8	620.6	504.0	418.8	370.4	344.0	330.3	320.2	305.4	293.5
57.5°	560.4	608.6	549.3	448.0	371.0	329.3	304.1	289.1	282.6	274.8	265.5
60°	496.0	543.7	498.5	410.5	338.9	299.3	276.9	264.3	257.8	252.3	244.4
62.5°	438.6	486.7	448.8	372.3	307.5	270.7	251.2	238.8	233.8	230.9	224.1
65°	359.6	401.1	375.8	313.0	262.4	230.0	212.3	203.6	198.9	197.8	193.5
67.5°	292.7	324.2	305.9	259.6	219.8	191.7	176.7	169.4	165.8	165.4	162.1
70°	248.7	278.3	264.3	222.3	188.0	166.1	153.1	146.6	144.4	144.0	142.2
72.5°	214.6	235.3	224.1	189.2	162.7	142.7	133.1	126.3	123.9	124.4	123.2
75°	158.8	174.4	167.9	143.6	122.3	109.3	101.4	97.1	94.9	96.0	94.5
77.5°	114.3	124.1	118.3	101.5	88.4	79.0	73.1	70.5	68.5	68.4	67.8
80°	86.2	92.1	88.8	78.7	67.9	59.9	55.2	53.4	52.3	52.0	51.7
82.5°	61.5	66.4	62.5	55.6	48.3	43.5	40.8	38.5	37.6	37.8	37.5
85°	31.0	32.9	31.4	27.1	24.2	22.1	20.5	19.5	18.8	19.1	18.4
87.5°	14.2	13.9	12.5	11.0	10.1	8.7	8.3	7.4	7.1	7.4	7.7
90°	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9	3.8	5.7	8.5
92.5°	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7	17.3	25.3	32.5
95°	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0	34.8	45.1	61.2
97.5°	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6	55.5	63.6	77.5
100°	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7	70.6	77.2	90.3
102.5°	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4	87.1	92.9	105.4
105°	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1	112.0	117.6	128.9
107.5°	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3	137.1	142.6	153.7
110°	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4	155.2	159.9	170.3

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0	171.8	176.5	186.8
115°	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8	196.6	202.3	211.7
117.5°	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8	221.1	225.8	234.4
120°	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3	236.1	240.8	250.2
122.5°	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6	250.4	255.1	265.3
125°	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2	270.0	275.7	286.0
127.5°	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8	286.5	293.5	304.1
130°	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5	296.3	304.8	316.1
132.5°	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0	304.6	313.9	327.4
135°	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2	318.0	328.4	342.4
137.5°	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7	330.6	340.7	355.8
140°	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0	339.6	349.0	364.1
142.5°	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9	347.9	358.1	371.6
145°	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4	361.3	369.8	383.9
147.5°	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2	374.8	383.1	395.3
150°	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0	383.9	391.3	403.6
152.5°	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7	392.9	400.4	411.1
155°	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4	407.4	413.0	422.4
157.5°	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1	419.8	424.3	432.6
160°	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1	428.1	431.9	439.3
162.5°	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9	434.9	437.9	443.8
165°	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0	444.0	445.9	450.6
167.5°	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7	451.6	452.5	456.1
170°	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2	455.3	456.3	459.1
172.5°	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2	459.1	459.3	461.4
175°	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8	462.9	461.9	463.8
177.5°	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5	464.8	464.0	464.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	732.6	730.7	727.7	723.4	719.9	714.4	714.4	715.3	715.3	715.0	714.4
5°	710.4	705.0	698.5	691.0	683.0	675.0	673.6	670.7	668.5	667.1	665.3
7.5°	686.9	677.4	667.9	657.3	647.6	639.6	634.0	629.4	626.4	623.3	620.9
10°	671.1	659.1	648.0	636.8	624.5	614.7	608.6	604.3	601.1	598.1	596.7
12.5°	652.3	638.7	626.3	615.7	602.3	592.2	586.4	584.4	580.5	574.5	571.3
15°	624.9	612.3	597.5	581.2	574.7	562.4	555.5	552.3	550.2	545.4	544.0
17.5°	601.4	584.8	568.3	556.1	544.0	534.1	530.3	526.2	523.4	519.5	518.4
20°	582.7	567.9	552.7	539.7	527.1	516.2	512.9	510.1	507.2	505.4	504.0
22.5°	563.5	548.7	536.2	524.1	510.6	503.5	499.9	496.8	494.7	493.5	492.1
25°	536.8	523.8	509.7	498.9	488.0	483.3	481.2	479.4	478.0	476.2	475.8
27.5°	512.8	498.7	487.3	477.1	469.4	465.4	463.4	462.5	462.8	463.4	463.8
30°	494.9	481.9	472.5	463.8	456.7	453.1	452.7	452.7	454.1	454.5	455.2
32.5°	478.4	467.8	458.4	450.0	444.5	442.1	443.5	443.5	444.6	445.5	446.9
35°	454.5	445.1	437.9	430.6	425.9	427.1	427.7	428.5	430.3	432.4	433.9
37.5°	431.6	423.5	415.9	410.3	408.1	410.1	411.8	413.3	415.5	417.1	418.5
40°	415.1	409.0	401.8	396.7	397.5	398.5	400.0	401.8	403.6	404.6	406.1
42.5°	399.8	393.4	388.0	383.7	384.7	386.2	387.0	388.0	390.0	392.0	392.9
45°	376.5	371.5	366.4	363.9	364.6	365.3	366.1	367.1	368.9	370.4	370.7
47.5°	350.3	346.8	343.4	340.9	342.0	341.8	342.7	345.1	345.6	346.5	348.5
50°	333.6	330.3	326.3	325.6	325.6	325.6	325.9	328.9	328.9	330.3	331.8
52.5°	315.1	313.0	310.5	309.2	308.6	308.6	310.1	311.5	312.1	314.1	315.6
55°	287.7	285.5	283.4	282.3	281.5	282.3	285.2	285.9	287.7	288.8	289.8
57.5°	259.2	257.5	255.8	255.2	255.1	256.0	257.6	259.8	260.2	263.5	265.1
60°	240.4	237.9	236.5	236.5	235.7	238.9	238.3	241.9	242.6	244.8	247.3
62.5°	221.0	217.6	217.1	217.1	218.1	219.0	220.1	221.7	223.6	226.3	228.2
65°	189.9	188.0	190.6	190.2	189.5	191.7	191.7	193.5	195.7	198.2	202.2
67.5°	160.3	159.4	159.7	159.7	160.7	161.9	163.0	164.6	167.1	169.8	172.4
70°	140.4	141.5	139.7	141.2	142.2	142.6	143.3	145.4	148.4	150.1	153.1
72.5°	121.1	121.0	121.2	121.8	122.9	123.6	124.2	126.7	129.9	131.4	133.7
75°	93.1	92.7	93.9	93.9	95.7	96.4	97.1	98.2	101.0	103.2	105.1
77.5°	68.1	68.4	68.2	69.5	69.0	69.1	71.4	72.4	72.7	77.0	77.9
80°	51.3	52.0	52.3	52.7	53.1	52.3	54.9	56.0	56.0	58.4	60.3
82.5°	36.9	37.2	38.2	38.5	38.6	39.3	39.6	40.3	41.2	42.3	44.7
85°	18.4	19.5	19.9	19.5	19.9	19.1	20.2	20.5	20.9	20.9	20.9
87.5°	7.8	8.5	8.8	9.6	9.9	10.7	10.6	10.2	10.4	11.4	10.7
90°	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6	24.5	25.4	27.2
92.5°	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2	62.9	55.5	50.6
95°	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7	229.6	179.7	145.8
97.5°	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3	676.3	554.9	442.3
100°	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3	1033.0	922.9	789.4
102.5°	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3	1194.9	1130.7	1046.0
105°	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0	1317.2	1335.0	1310.6
107.5°	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0	1301.7	1384.1	1417.7
110°	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2	1251.3	1369.8	1435.7

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1	1185.1	1317.9	1402.6
115°	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4	1079.1	1217.4	1319.9
117.5°	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3	989.6	1113.7	1217.8
120°	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8	939.9	1052.8	1147.8
122.5°	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0	900.0	1004.7	1092.9
125°	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0	850.6	940.8	1016.1
127.5°	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6	807.0	888.5	957.0
130°	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3	780.0	856.1	920.1
132.5°	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5	754.3	825.3	886.3
135°	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0	717.8	779.0	832.6
137.5°	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9	682.7	735.4	781.8
140°	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3	662.3	707.5	748.0
142.5°	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5	642.8	681.9	717.1
145°	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2	617.2	647.2	674.6
147.5°	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5	598.1	622.5	641.9
150°	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5	586.2	605.9	623.8
152.5°	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2	574.9	592.4	607.2
155°	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8	558.8	573.0	584.3
157.5°	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7	543.2	554.1	563.0
160°	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1	533.5	542.8	549.4
162.5°	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1	522.9	531.6	537.4
165°	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4	508.0	514.6	519.3
167.5°	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2	496.5	500.3	503.7
170°	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5	488.3	492.0	493.9
172.5°	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5	481.5	484.6	485.7
175°	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4	472.3	474.2	474.2
177.5°	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3	467.0	467.8	467.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	712.5	712.2	714.2	712.8	714.2	712.2	712.5	714.4	715.0	715.3	715.3
5°	663.2	664.2	660.6	660.6	660.6	664.2	663.2	665.3	667.1	668.5	670.7
7.5°	619.3	617.6	617.8	615.9	617.8	617.6	619.3	620.9	623.3	626.4	629.4
10°	592.4	590.2	589.5	589.8	589.5	590.2	592.4	596.7	598.1	601.1	604.3
12.5°	570.1	569.7	565.0	565.1	565.0	569.7	570.1	571.3	574.5	580.5	584.4
15°	544.0	537.2	536.4	538.6	536.4	537.2	544.0	544.0	545.4	550.2	552.3
17.5°	517.8	514.2	514.4	513.3	514.4	514.2	517.8	518.4	519.5	523.4	526.2
20°	504.0	501.8	501.4	498.9	501.4	501.8	504.0	504.0	505.4	507.2	510.1
22.5°	491.3	490.5	490.7	488.0	490.7	490.5	491.3	492.1	493.5	494.7	496.8
25°	475.4	477.2	475.8	475.8	475.8	477.2	475.4	475.8	476.2	478.0	479.4
27.5°	464.8	464.7	463.9	463.9	463.9	464.7	464.8	463.8	463.4	462.8	462.5
30°	456.7	456.3	457.0	457.0	457.0	456.3	456.7	455.2	454.5	454.1	452.7
32.5°	448.6	449.0	449.2	449.5	449.2	449.0	448.6	446.9	445.5	444.6	443.5
35°	436.1	436.4	437.5	436.8	437.5	436.4	436.1	433.9	432.4	430.3	428.5
37.5°	419.1	420.8	420.5	421.0	420.5	420.8	419.1	418.5	417.1	415.5	413.3
40°	406.5	407.6	407.2	407.2	407.2	407.6	406.5	406.1	404.6	403.6	401.8
42.5°	393.5	394.3	393.3	392.8	393.3	394.3	393.5	392.9	392.0	390.0	388.0
45°	372.2	371.5	372.6	371.1	372.6	371.5	372.2	370.7	370.4	368.9	367.1
47.5°	348.4	349.1	349.4	350.4	349.4	349.1	348.4	348.5	346.5	345.6	345.1
50°	332.4	334.6	334.6	334.3	334.6	334.6	332.4	331.8	330.3	328.9	328.9
52.5°	316.9	317.9	319.3	319.2	319.3	317.9	316.9	315.6	314.1	312.1	311.5
55°	292.8	293.5	294.2	294.5	294.2	293.5	292.8	289.8	288.8	287.7	285.9
57.5°	267.8	267.5	269.2	269.8	269.2	267.5	267.8	265.1	263.5	260.2	259.8
60°	250.2	250.2	253.1	254.1	253.1	250.2	250.2	247.3	244.8	242.6	241.9
62.5°	231.4	232.5	235.4	233.9	235.4	232.5	231.4	228.2	226.3	223.6	221.7
65°	204.0	206.9	206.5	207.9	206.5	206.9	204.0	202.2	198.2	195.7	193.5
67.5°	175.3	177.1	179.7	179.9	179.7	177.1	175.3	172.4	169.8	167.1	164.6
70°	156.0	157.8	159.2	160.2	159.2	157.8	156.0	153.1	150.1	148.4	145.4
72.5°	137.1	138.1	141.6	140.1	141.6	138.1	137.1	133.7	131.4	129.9	126.7
75°	107.5	110.1	112.3	111.2	112.3	110.1	107.5	105.1	103.2	101.0	98.2
77.5°	79.6	82.1	83.1	82.2	83.1	82.1	79.6	77.9	77.0	72.7	72.4
80°	62.8	62.5	64.7	64.3	64.7	62.5	62.8	60.3	58.4	56.0	56.0
82.5°	46.1	45.7	46.8	46.9	46.8	45.7	46.1	44.7	42.3	41.2	40.3
85°	22.3	23.5	22.1	21.7	22.1	23.5	22.3	20.9	20.9	20.9	20.5
87.5°	10.5	10.7	10.6	10.1	10.6	10.7	10.5	10.7	11.4	10.4	10.2
90°	26.3	27.2	28.2	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6
92.5°	48.9	46.1	47.0	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2
95°	128.0	119.5	112.9	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7
97.5°	373.0	330.6	305.2	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3
100°	694.4	625.7	589.0	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3
102.5°	972.0	917.7	887.0	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3
105°	1267.2	1231.5	1201.5	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0
107.5°	1418.4	1406.4	1396.2	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0
110°	1462.1	1469.6	1467.7	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1450.8	1474.0	1481.2	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1
115°	1390.5	1431.9	1450.8	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4
117.5°	1291.4	1338.8	1365.9	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3
120°	1222.1	1274.8	1297.4	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8
122.5°	1159.0	1206.4	1231.1	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0
125°	1076.3	1117.7	1141.2	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0
127.5°	1010.6	1046.0	1067.2	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6
130°	970.0	1003.9	1023.6	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3
132.5°	933.1	967.0	984.5	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5
135°	878.7	906.9	923.9	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0
137.5°	820.6	849.2	863.5	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9
140°	783.7	810.0	825.1	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3
142.5°	747.6	770.9	784.5	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5
145°	698.0	717.8	725.4	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2
147.5°	659.7	673.1	680.2	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5
150°	637.9	648.2	653.8	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5
152.5°	618.3	627.9	631.3	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2
155°	592.8	600.2	602.1	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8
157.5°	570.3	576.0	577.5	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7
160°	556.0	561.7	561.7	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1
162.5°	541.8	546.6	546.6	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1
165°	523.1	526.9	525.9	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4
167.5°	505.4	508.0	507.1	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2
170°	494.8	496.7	495.8	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5
172.5°	485.9	487.8	486.1	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5
175°	474.2	475.1	474.2	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4
177.5°	467.0	467.8	466.3	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	714.4	714.4	719.9	723.4	727.7	730.7	732.6	734.7	738.1	742.8	748.0
5°	673.6	675.0	683.0	691.0	698.5	705.0	710.4	716.9	724.9	734.6	745.5
7.5°	634.0	639.6	647.6	657.3	667.9	677.4	686.9	697.7	708.8	723.2	738.4
10°	608.6	614.7	624.5	636.8	648.0	659.1	671.1	682.6	696.7	713.7	733.2
12.5°	586.4	592.2	602.3	615.7	626.3	638.7	652.3	667.3	683.2	703.6	725.7
15°	555.5	562.4	574.7	581.2	597.5	612.3	624.9	646.5	666.8	687.7	713.3
17.5°	530.3	534.1	544.0	556.1	568.3	584.8	601.4	619.4	639.6	665.2	697.3
20°	512.9	516.2	527.1	539.7	552.7	567.9	582.7	600.7	623.4	650.5	685.1
22.5°	499.9	503.5	510.6	524.1	536.2	548.7	563.5	585.1	609.3	635.7	673.4
25°	481.2	483.3	488.0	498.9	509.7	523.8	536.8	557.0	581.9	612.9	650.5
27.5°	463.4	465.4	469.4	477.1	487.3	498.7	512.8	530.0	555.3	589.0	628.9
30°	452.7	453.1	456.7	463.8	472.5	481.9	494.9	514.4	538.2	572.5	614.4
32.5°	443.5	442.1	444.5	450.0	458.4	467.8	478.4	497.7	520.7	554.3	597.4
35°	427.7	427.1	425.9	430.6	437.9	445.1	454.5	468.9	494.9	526.3	571.5
37.5°	411.8	410.1	408.1	410.3	415.9	423.5	431.6	444.4	466.8	501.4	544.6
40°	400.0	398.5	397.5	396.7	401.8	409.0	415.1	427.4	448.4	481.2	523.8
42.5°	387.0	386.2	384.7	383.7	388.0	393.4	399.8	410.7	431.6	462.4	502.8
45°	366.1	365.3	364.6	363.9	366.4	371.5	376.5	384.5	402.5	432.4	468.9
47.5°	342.7	341.8	342.0	340.9	343.4	346.8	350.3	358.8	376.2	400.3	427.0
50°	325.9	325.6	325.6	325.6	326.3	330.3	333.6	340.1	355.9	380.1	399.3
52.5°	310.1	308.6	308.6	309.2	310.5	313.0	315.1	322.2	336.0	355.9	373.2
55°	285.2	282.3	281.5	282.3	283.4	285.5	287.7	293.5	305.4	320.2	330.3
57.5°	257.6	256.0	255.1	255.2	255.8	257.5	259.2	265.5	274.8	282.6	289.1
60°	238.3	238.9	235.7	236.5	236.5	237.9	240.4	244.4	252.3	257.8	264.3
62.5°	220.1	219.0	218.1	217.1	217.1	217.6	221.0	224.1	230.9	233.8	238.8
65°	191.7	191.7	189.5	190.2	190.6	188.0	189.9	193.5	197.8	198.9	203.6
67.5°	163.0	161.9	160.7	159.7	159.7	159.4	160.3	162.1	165.4	165.8	169.4
70°	143.3	142.6	142.2	141.2	139.7	141.5	140.4	142.2	144.0	144.4	146.6
72.5°	124.2	123.6	122.9	121.8	121.2	121.0	121.1	123.2	124.4	123.9	126.3
75°	97.1	96.4	95.7	93.9	93.9	92.7	93.1	94.5	96.0	94.9	97.1
77.5°	71.4	69.1	69.0	69.5	68.2	68.4	68.1	67.8	68.4	68.5	70.5
80°	54.9	52.3	53.1	52.7	52.3	52.0	51.3	51.7	52.0	52.3	53.4
82.5°	39.6	39.3	38.6	38.5	38.2	37.2	36.9	37.5	37.8	37.6	38.5
85°	20.2	19.1	19.9	19.5	19.9	19.5	18.4	18.4	19.1	18.8	19.5
87.5°	10.6	10.7	9.9	9.6	8.8	8.5	7.8	7.7	7.4	7.1	7.4
90°	22.6	23.6	20.7	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9
92.5°	109.1	144.7	159.2	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7
95°	452.5	557.9	496.7	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0
97.5°	925.0	864.6	633.0	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6
100°	1076.3	891.0	602.1	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7
102.5°	1083.8	842.1	556.9	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4
105°	1026.4	756.4	501.4	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1
107.5°	926.0	680.8	466.1	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3
110°	862.7	637.9	452.5	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	807.8	609.3	445.0	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0
115°	741.4	578.6	442.1	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8
117.5°	701.3	560.5	443.8	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8
120°	680.2	552.2	446.9	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3
122.5°	662.9	547.0	452.1	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6
125°	640.7	540.1	460.1	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2
127.5°	621.1	536.7	469.1	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8
130°	610.6	534.4	475.1	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5
132.5°	600.8	533.7	479.7	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0
135°	588.1	532.5	486.4	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2
137.5°	576.9	530.5	490.9	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7
140°	570.1	529.7	493.9	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0
142.5°	564.1	528.2	496.2	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9
145°	556.0	525.9	497.7	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4
147.5°	548.1	522.4	497.7	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2
150°	542.8	519.3	497.7	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0
152.5°	536.9	515.6	495.4	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7
155°	527.8	509.0	492.9	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4
157.5°	517.6	503.1	489.8	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1
160°	510.9	498.6	488.3	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1
162.5°	504.1	494.1	485.3	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9
165°	494.8	487.4	480.8	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0
167.5°	486.1	480.6	476.3	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7
170°	480.8	476.1	473.3	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2
172.5°	475.5	472.3	471.0	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2
175°	469.5	467.6	467.6	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8
177.5°	465.5	464.8	465.5	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	749.7	751.1	756.0	759.5	763.6	765.9	768.2	770.0	772.2	772.8	781.2
5°	753.0	760.3	772.9	782.2	793.8	806.4	815.1	819.1	829.5	838.2	855.5
7.5°	752.1	767.4	786.6	806.3	827.6	847.2	864.2	884.4	898.8	920.4	941.7
10°	751.2	771.8	796.4	821.6	851.2	878.6	903.2	930.7	953.4	983.4	1009.0
12.5°	748.7	773.5	807.6	837.4	873.5	911.3	947.6	982.9	1003.1	1052.9	1076.6
15°	742.2	771.8	814.4	859.9	909.4	954.1	1000.3	1037.1	1096.6	1140.4	1168.2
17.5°	729.9	771.4	821.9	876.8	936.9	995.9	1048.2	1104.1	1167.3	1220.1	1276.5
20°	724.2	769.6	826.0	886.6	949.0	1015.8	1075.3	1142.6	1211.4	1263.5	1335.7
22.5°	713.5	765.0	825.7	893.2	960.0	1029.1	1098.8	1166.5	1246.1	1317.8	1386.5
25°	696.0	753.8	816.5	892.0	970.3	1039.6	1123.0	1213.0	1296.0	1388.0	1456.6
27.5°	677.7	739.3	802.3	872.4	956.7	1039.0	1143.9	1245.4	1346.9	1426.4	1477.2
30°	663.5	723.4	788.4	859.1	942.5	1040.4	1157.7	1268.5	1367.4	1435.7	1464.1
32.5°	648.2	709.0	766.5	840.7	929.5	1039.5	1166.4	1282.0	1368.6	1414.0	1408.4
35°	624.2	675.0	731.0	802.5	907.2	1033.1	1171.4	1283.3	1336.3	1326.6	1253.0
37.5°	589.5	632.4	687.4	765.6	881.2	1019.8	1161.3	1245.3	1241.8	1162.4	1055.7
40°	567.9	604.3	657.3	739.7	860.9	1011.2	1145.4	1200.0	1153.8	1042.9	915.1
42.5°	539.5	573.1	626.1	710.8	838.8	993.5	1115.1	1130.9	1040.5	912.9	795.9
45°	495.7	525.3	580.1	667.5	805.4	955.2	1041.1	1002.5	880.8	749.0	659.9
47.5°	448.5	479.3	532.1	621.8	757.1	897.5	938.4	856.3	731.3	624.5	542.6
50°	418.8	448.4	499.9	590.6	724.5	850.2	867.1	761.0	646.2	552.3	485.1
52.5°	388.7	416.6	467.3	558.3	686.4	795.2	784.8	676.7	571.1	491.1	438.4
55°	344.0	370.4	418.8	504.0	620.6	706.8	668.9	565.7	478.3	416.2	376.2
57.5°	304.1	329.3	371.0	448.0	549.3	608.6	560.4	473.4	404.0	356.2	326.3
60°	276.9	299.3	338.9	410.5	498.5	543.7	496.0	419.1	360.6	322.3	295.7
62.5°	251.2	270.7	307.5	372.3	448.8	486.7	438.6	373.4	323.7	289.7	267.0
65°	212.3	230.0	262.4	313.0	375.8	401.1	359.6	306.8	268.2	243.0	227.8
67.5°	176.7	191.7	219.8	259.6	305.9	324.2	292.7	251.8	222.7	202.5	190.4
70°	153.1	166.1	188.0	222.3	264.3	278.3	248.7	215.2	193.9	177.6	166.5
72.5°	133.1	142.7	162.7	189.2	224.1	235.3	214.6	185.1	165.2	153.1	144.2
75°	101.4	109.3	122.3	143.6	167.9	174.4	158.8	140.4	127.1	118.4	111.5
77.5°	73.1	79.0	88.4	101.5	118.3	124.1	114.3	102.0	92.3	86.4	82.6
80°	55.2	59.9	67.9	78.7	88.8	92.1	86.2	76.9	70.0	66.8	63.5
82.5°	40.8	43.5	48.3	55.6	62.5	66.4	61.5	55.8	52.1	49.2	48.0
85°	20.5	22.1	24.2	27.1	31.4	32.9	31.0	29.6	27.4	25.6	25.6
87.5°	8.3	8.7	10.1	11.0	12.5	13.9	14.2	14.2	14.5	14.0	13.9
90°	3.8	5.7	8.5	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6
92.5°	17.3	25.3	32.5	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2
95°	34.8	45.1	61.2	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7
97.5°	55.5	63.6	77.5	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3
100°	70.6	77.2	90.3	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3
102.5°	87.1	92.9	105.4	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3
105°	112.0	117.6	128.9	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0
107.5°	137.1	142.6	153.7	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0
110°	155.2	159.9	170.3	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2

TEST NUMBER: P331939-830

CATALOG NUMBER: S123DIP-S560D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	176.5	186.8	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1
115°	196.6	202.3	211.7	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4
117.5°	221.1	225.8	234.4	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3
120°	236.1	240.8	250.2	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8
122.5°	250.4	255.1	265.3	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0
125°	270.0	275.7	286.0	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0
127.5°	286.5	293.5	304.1	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6
130°	296.3	304.8	316.1	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3
132.5°	304.6	313.9	327.4	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5
135°	318.0	328.4	342.4	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0
137.5°	330.6	340.7	355.8	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9
140°	339.6	349.0	364.1	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3
142.5°	347.9	358.1	371.6	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5
145°	361.3	369.8	383.9	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2
147.5°	374.8	383.1	395.3	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5
150°	383.9	391.3	403.6	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5
152.5°	392.9	400.4	411.1	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2
155°	407.4	413.0	422.4	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8
157.5°	419.8	424.3	432.6	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7
160°	428.1	431.9	439.3	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1
162.5°	434.9	437.9	443.8	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1
165°	444.0	445.9	450.6	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4
167.5°	451.6	452.5	456.1	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2
170°	455.3	456.3	459.1	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5
172.5°	459.1	459.3	461.4	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5
175°	462.9	461.9	463.8	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4
177.5°	464.8	464.0	464.8	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	784.1	784.4	787.5	789.9	788.7	790.1	790.7
5°	856.6	869.6	876.5	881.6	881.9	882.2	885.1
7.5°	959.5	973.5	983.6	999.1	1003.7	1009.0	1007.5
10°	1034.6	1055.2	1072.9	1082.2	1092.3	1107.1	1095.2
12.5°	1104.8	1141.2	1168.2	1182.7	1192.3	1195.2	1189.4
15°	1220.5	1268.2	1293.8	1293.1	1325.6	1339.6	1317.6
17.5°	1326.6	1370.6	1405.8	1423.9	1451.0	1457.0	1454.2
20°	1391.6	1439.6	1467.1	1498.1	1512.2	1524.8	1527.0
22.5°	1447.7	1490.7	1520.2	1546.1	1557.8	1563.8	1567.4
25°	1505.3	1539.3	1557.0	1565.9	1569.2	1568.5	1563.8
27.5°	1501.4	1503.9	1484.5	1465.4	1448.2	1428.9	1422.3
30°	1462.4	1432.0	1377.9	1347.2	1302.1	1266.3	1280.8
32.5°	1359.8	1299.5	1238.7	1171.6	1116.1	1100.3	1084.4
35°	1160.6	1054.4	992.4	920.2	891.3	862.4	842.5
37.5°	939.0	856.9	783.2	735.9	707.0	688.8	678.9
40°	811.9	737.8	677.2	638.9	616.9	596.3	593.4
42.5°	710.5	641.7	596.1	565.6	544.4	535.7	529.3
45°	581.9	533.9	503.2	481.5	467.5	462.0	454.9
47.5°	492.6	458.6	435.5	420.8	410.2	406.1	405.6
50°	442.6	414.4	397.5	385.9	377.6	376.2	370.4
52.5°	405.0	380.6	367.4	357.3	351.3	347.2	345.5
55°	351.6	335.4	323.5	317.6	313.0	309.0	309.0
57.5°	307.6	294.1	286.2	281.3	279.8	277.0	275.2
60°	280.5	268.9	262.8	258.4	255.6	255.9	252.7
62.5°	253.9	246.4	240.5	236.2	232.8	232.8	233.1
65°	216.2	210.5	206.1	204.7	202.6	200.0	200.7
67.5°	183.2	177.9	174.5	172.0	171.3	169.8	172.0
70°	159.6	155.6	153.1	150.9	150.1	150.5	152.3
72.5°	137.9	135.1	133.5	132.4	130.8	130.9	132.1
75°	108.3	106.1	104.7	103.6	103.2	103.2	103.2
77.5°	79.6	79.1	78.4	76.8	76.9	77.3	77.4
80°	62.8	61.7	61.4	60.6	59.6	58.8	60.6
82.5°	46.9	45.8	45.5	45.3	43.6	43.5	45.1
85°	25.3	24.2	24.5	24.2	24.2	23.8	23.8
87.5°	13.9	13.8	13.9	13.9	13.9	13.8	14.1
90°	24.5	25.4	27.2	26.3	27.2	28.2	27.2
92.5°	62.9	55.5	50.6	48.9	46.1	47.0	45.3
95°	229.6	179.7	145.8	128.0	119.5	112.9	109.1
97.5°	676.3	554.9	442.3	373.0	330.6	305.2	297.1
100°	1033.0	922.9	789.4	694.4	625.7	589.0	589.9
102.5°	1194.9	1130.7	1046.0	972.0	917.7	887.0	865.3
105°	1317.2	1335.0	1310.6	1267.2	1231.5	1201.5	1196.7
107.5°	1301.7	1384.1	1417.7	1418.4	1406.4	1396.2	1387.5
110°	1251.3	1369.8	1435.7	1462.1	1469.6	1467.7	1465.8

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.1	1317.9	1402.6	1450.8	1474.0	1481.2	1481.6
115°	1079.1	1217.4	1319.9	1390.5	1431.9	1450.8	1455.5
117.5°	989.6	1113.7	1217.8	1291.4	1338.8	1365.9	1372.2
120°	939.9	1052.8	1147.8	1222.1	1274.8	1297.4	1303.1
122.5°	900.0	1004.7	1092.9	1159.0	1206.4	1231.1	1238.3
125°	850.6	940.8	1016.1	1076.3	1117.7	1141.2	1147.8
127.5°	807.0	888.5	957.0	1010.6	1046.0	1067.2	1073.3
130°	780.0	856.1	920.1	970.0	1003.9	1023.6	1031.1
132.5°	754.3	825.3	886.3	933.1	967.0	984.5	989.8
135°	717.8	779.0	832.6	878.7	906.9	923.9	930.5
137.5°	682.7	735.4	781.8	820.6	849.2	863.5	867.8
140°	662.3	707.5	748.0	783.7	810.0	825.1	824.2
142.5°	642.8	681.9	717.1	747.6	770.9	784.5	783.5
145°	617.2	647.2	674.6	698.0	717.8	725.4	727.3
147.5°	598.1	622.5	641.9	659.7	673.1	680.2	681.0
150°	586.2	605.9	623.8	637.9	648.2	653.8	653.8
152.5°	574.9	592.4	607.2	618.3	627.9	631.3	631.3
155°	558.8	573.0	584.3	592.8	600.2	602.1	603.0
157.5°	543.2	554.1	563.0	570.3	576.0	577.5	577.3
160°	533.5	542.8	549.4	556.0	561.7	561.7	560.7
162.5°	522.9	531.6	537.4	541.8	546.6	546.6	545.6
165°	508.0	514.6	519.3	523.1	526.9	525.9	525.9
167.5°	496.5	500.3	503.7	505.4	508.0	507.1	507.1
170°	488.3	492.0	493.9	494.8	496.7	495.8	495.8
172.5°	481.5	484.6	485.7	485.9	487.8	486.1	485.3
175°	472.3	474.2	474.2	474.2	475.1	474.2	473.3
177.5°	467.0	467.8	467.8	467.0	467.8	466.3	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)