

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: P331911-830

Luminaire Tested: **S123DIP-S560D365U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331911-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D365U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3424.9 lumens
Efficiency: N/A
Efficacy: 124.5 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-Direct

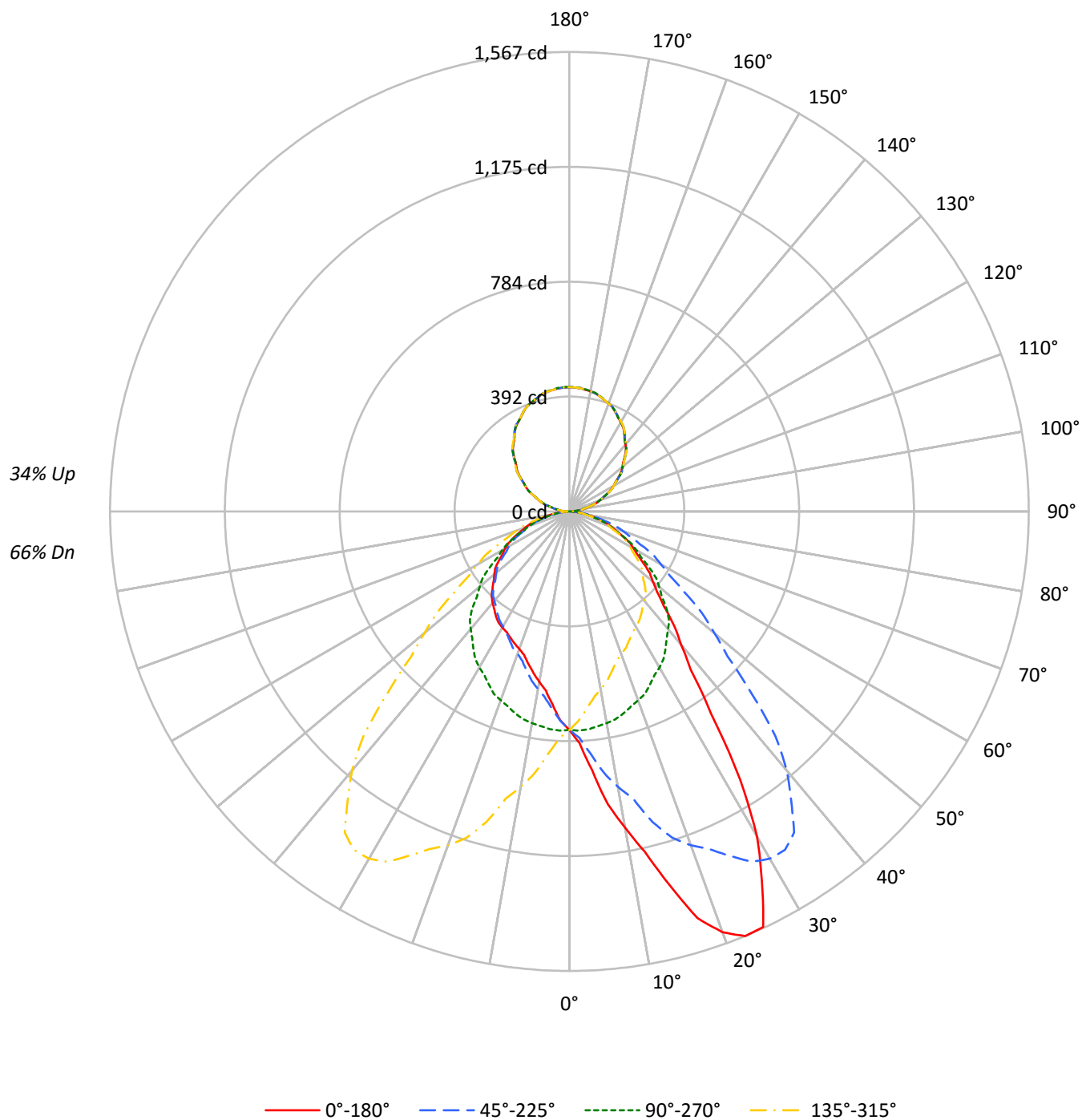
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	102	97	94	90	96	92	88	85	81	79	77	72	70	68	63	62	60
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	45	41	37	40	36	33
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	29	26
8	57	44	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19

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	2.1
10°-20°	235.3	6.9
20°-30°	395.0	11.5
30°-40°	447.2	13.1
40°-50°	401.1	11.7
50°-60°	323.7	9.5
60°-70°	225.5	6.6
70°-80°	118.5	3.5
80°-90°	30.2	0.9
90°-100°	27.6	0.8
100°-110°	82.7	2.4
110°-120°	140.6	4.1
120°-130°	185.0	5.4
130°-140°	207.9	6.1
140°-150°	204.4	6.0
150°-160°	172.0	5.0
160°-170°	114.5	3.3
170°-180°	40.1	1.2
0°-30°	703.7	20.5
0°-40°	1151.0	33.6
0°-60°	1875.7	54.8
0°-90°	2250.1	65.7
90°-120°	250.9	7.3
90°-150°	848.1	24.8
90°-180°	1175.0	34.3
0°-180°	3424.9	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	28
90°	10	0	10	0	10	6
95°	26	20	26	20	26	27
105°	79	75	79	75	79	84
115°	142	142	142	142	142	141
125°	205	207	205	207	205	183
135°	268	269	268	269	268	206
145°	326	326	326	326	326	204
155°	373	373	373	373	373	172
165°	405	407	405	407	405	114
175°	421	423	421	423	421	40
180°	424	424	424	424	424	

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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°	10.7	10.1	10.3	10.6	10.3	10.5	10.7	10.9	11.2	11.4	11.5
90°	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.3	8.0	7.1
92.5°	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3	13.0	12.8	12.3
95°	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3	25.0	24.7	24.0
97.5°	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2	38.9	38.5	38.2
100°	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4	49.2	48.9	48.6
102.5°	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2	60.9	60.7	60.2
105°	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6	78.6	78.6	77.9
107.5°	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6	97.3	97.1	96.8
110°	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2	109.9	109.6	109.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8	122.4	122.2	122.1
115°	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0	141.9	141.9	142.0
117.5°	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5	161.5	161.5	161.6
120°	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4	174.5	174.6	174.9
122.5°	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5	187.7	187.8	188.0
125°	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9	207.2	207.5	207.6
127.5°	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1	226.6	227.0	227.2
130°	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9	239.2	239.5	239.7
132.5°	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3	251.7	252.0	252.1
135°	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8	270.1	270.5	270.5
137.5°	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0	288.3	288.6	288.4
140°	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9	300.0	300.1	300.0
142.5°	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1	311.2	311.3	311.1
145°	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6	327.7	327.7	327.5
147.5°	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7	352.7	352.7	352.6
152.5°	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5	361.4	361.3	361.2
155°	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3	374.0	373.7	373.6
157.5°	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3	385.0	384.7	384.7
160°	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1	391.7	391.3	391.3
162.5°	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5	398.1	397.8	397.8
165°	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6	406.1	405.7	405.7
167.5°	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1	412.6	412.3	412.2
170°	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7	416.2	415.7	415.7
172.5°	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5	419.1	418.6	418.6
175°	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5	422.2	421.7	421.7
177.5°	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0	423.6	423.2	423.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

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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°	11.9	12.0	10.9	9.6	8.9	7.9	7.7	7.0	6.6	6.7	6.6
90°	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4	1.0	1.8	2.5
92.5°	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1	8.6	9.0	9.6
95°	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7	20.2	20.6	21.2
97.5°	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9	35.3	35.7	36.1
100°	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3	45.7	46.2	46.7
102.5°	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3	57.6	57.8	58.1
105°	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9	75.1	75.2	75.4
107.5°	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5	95.6	95.7	95.8
110°	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3	108.4	108.6	108.7

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6	121.7	121.8	121.9
115°	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6	141.8	142.0	142.2
117.5°	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6	161.8	162.0	162.1
120°	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2	174.7	175.1	175.5
122.5°	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3	187.6	187.9	188.2
125°	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2	207.4	207.6	207.8
127.5°	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6	226.0	226.5	227.0
130°	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8	238.4	239.0	239.6
132.5°	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1	250.7	251.3	251.8
135°	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8	269.3	269.7	270.1
137.5°	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2	286.5	286.8	287.2
140°	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1	298.5	298.9	299.3
142.5°	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1	309.4	309.8	310.2
145°	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1	326.2	326.4	326.5
147.5°	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0	341.3	341.6	341.9
150°	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4	351.6	351.7	351.9
152.5°	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0	360.1	360.3	360.5
155°	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8	384.7	384.7	384.6
160°	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0	391.9	391.7	391.6
162.5°	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4	398.2	398.0	397.8
165°	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7	406.5	406.2	406.0
167.5°	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3	413.0	412.7	412.4
170°	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0	416.7	416.4	416.1
172.5°	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0	419.6	419.3	419.1
175°	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0	422.7	422.4	422.2
177.5°	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2	424.0	423.8	423.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

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°	6.4	6.9	6.8	7.3	7.2	7.6	7.7	7.2	7.3	8.2	7.1
90°	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6	8.9	9.1	9.4
92.5°	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3	13.5	13.8	13.9
95°	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3	25.5	25.8	26.0
97.5°	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2	39.6	40.0	40.1
100°	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4	49.7	49.9	50.0
102.5°	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2	61.4	61.5	61.6
105°	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6	78.6	78.6	78.7
107.5°	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6	97.7	98.0	98.1
110°	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2	110.5	110.7	110.8

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8	123.2	123.6	123.7
115°	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0	142.1	142.2	142.2
117.5°	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5	161.5	161.5	161.3
120°	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4	174.3	174.3	174.1
122.5°	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5	187.3	187.1	186.9
125°	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9	206.6	206.3	206.0
127.5°	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1	225.7	225.3	224.9
130°	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9	238.6	238.3	237.9
132.5°	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3	250.9	250.6	250.2
135°	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8	269.6	269.3	269.1
137.5°	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0	287.8	287.4	287.1
140°	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9	299.9	299.8	299.5
142.5°	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1	311.0	311.0	310.8
145°	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6	327.5	327.4	327.3
147.5°	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2	343.2	343.2	342.9
150°	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7	352.7	352.7	352.5
152.5°	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5	361.7	361.7	361.6
155°	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3	374.6	374.9	374.8
157.5°	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3	385.7	386.0	385.9
160°	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1	392.5	392.9	392.9
162.5°	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5	398.9	399.3	399.2
165°	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6	407.0	407.5	407.5
167.5°	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1	413.6	414.1	414.1
170°	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7	417.3	417.7	417.7
172.5°	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5	420.0	420.5	420.5
175°	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5	423.0	423.5	423.4
177.5°	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0	424.2	424.6	424.6
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

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°	7.1	7.2	6.9	6.6	6.9	7.2	7.1	7.1	8.2	7.3	7.2
90°	9.5	9.7	9.8	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6
92.5°	13.8	13.7	13.6	13.5	13.6	13.7	13.8	13.9	13.8	13.5	13.3
95°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	25.8	25.5	25.3
97.5°	40.1	40.1	40.0	40.0	40.0	40.1	40.1	40.1	40.0	39.6	39.2
100°	50.1	50.3	50.5	50.6	50.5	50.3	50.1	50.0	49.9	49.7	49.4
102.5°	61.6	61.6	61.5	61.5	61.5	61.6	61.6	61.6	61.5	61.4	61.2
105°	78.8	79.0	79.2	79.3	79.2	79.0	78.8	78.7	78.6	78.6	78.6
107.5°	98.0	97.9	97.8	97.7	97.8	97.9	98.0	98.1	98.0	97.7	97.6
110°	110.7	110.6	110.4	110.3	110.4	110.6	110.7	110.8	110.7	110.5	110.2

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	123.7	123.7	123.6	123.6	123.6	123.7	123.7	123.7	123.6	123.2	122.8
115°	142.1	142.0	141.9	141.9	141.9	142.0	142.1	142.2	142.2	142.1	142.0
117.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.5	161.5	161.5
120°	174.0	173.8	173.7	173.5	173.7	173.8	174.0	174.1	174.3	174.3	174.4
122.5°	186.7	186.4	186.2	186.1	186.2	186.4	186.7	186.9	187.1	187.3	187.5
125°	205.8	205.5	205.1	204.8	205.1	205.5	205.8	206.0	206.3	206.6	206.9
127.5°	224.6	224.2	223.9	223.6	223.9	224.2	224.6	224.9	225.3	225.7	226.1
130°	237.4	236.9	236.4	235.8	236.4	236.9	237.4	237.9	238.3	238.6	238.9
132.5°	249.8	249.4	249.0	248.6	249.0	249.4	249.8	250.2	250.6	250.9	251.3
135°	268.9	268.7	268.6	268.4	268.6	268.7	268.9	269.1	269.3	269.6	269.8
137.5°	286.8	286.5	286.3	286.0	286.3	286.5	286.8	287.1	287.4	287.8	288.0
140°	299.0	298.5	297.9	297.5	297.9	298.5	299.0	299.5	299.8	299.9	299.9
142.5°	310.4	310.0	309.5	309.2	309.5	310.0	310.4	310.8	311.0	311.0	311.1
145°	327.0	326.7	326.4	326.1	326.4	326.7	327.0	327.3	327.4	327.5	327.6
147.5°	342.5	342.0	341.6	341.1	341.6	342.0	342.5	342.9	343.2	343.2	343.2
150°	352.0	351.7	351.2	350.7	351.2	351.7	352.0	352.5	352.7	352.7	352.7
152.5°	361.2	360.8	360.4	360.1	360.4	360.8	361.2	361.6	361.7	361.7	361.5
155°	374.3	373.7	373.2	372.7	373.2	373.7	374.3	374.8	374.9	374.6	374.3
157.5°	385.5	385.1	384.7	384.3	384.7	385.1	385.5	385.9	386.0	385.7	385.3
160°	392.6	392.3	392.0	391.7	392.0	392.3	392.6	392.9	392.9	392.5	392.1
162.5°	398.7	398.2	397.8	397.3	397.8	398.2	398.7	399.2	399.3	398.9	398.5
165°	406.9	406.4	405.9	405.4	405.9	406.4	406.9	407.5	407.5	407.0	406.6
167.5°	413.6	413.1	412.6	412.3	412.6	413.1	413.6	414.1	414.1	413.6	413.1
170°	417.3	416.7	416.2	415.7	416.2	416.7	417.3	417.7	417.7	417.3	416.7
172.5°	419.9	419.4	418.9	418.4	418.9	419.4	419.9	420.5	420.5	420.0	419.5
175°	422.9	422.4	421.9	421.3	421.9	422.4	422.9	423.4	423.5	423.0	422.5
177.5°	424.2	423.8	423.4	422.9	423.4	423.8	424.2	424.6	424.6	424.2	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

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°	7.7	7.6	7.2	7.3	6.8	6.9	6.4	6.6	6.7	6.6	7.0
90°	8.3	8.0	7.1	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4
92.5°	13.0	12.8	12.3	11.7	11.1	10.6	10.1	9.6	9.0	8.6	8.1
95°	25.0	24.7	24.0	23.5	22.9	22.2	21.7	21.2	20.6	20.2	19.7
97.5°	38.9	38.5	38.2	37.7	37.3	36.9	36.5	36.1	35.7	35.3	34.9
100°	49.2	48.9	48.6	48.3	47.9	47.5	47.0	46.7	46.2	45.7	45.3
102.5°	60.9	60.7	60.2	59.8	59.2	58.7	58.3	58.1	57.8	57.6	57.3
105°	78.6	78.6	77.9	77.3	76.6	76.0	75.5	75.4	75.2	75.1	74.9
107.5°	97.3	97.1	96.8	96.5	96.2	96.0	95.9	95.8	95.7	95.6	95.5
110°	109.9	109.6	109.4	109.3	109.1	109.0	108.9	108.7	108.6	108.4	108.3

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.4	122.2	122.1	122.1	122.1	122.0	122.0	121.9	121.8	121.7	121.6
115°	141.9	141.9	142.0	142.2	142.3	142.5	142.4	142.2	142.0	141.8	141.6
117.5°	161.5	161.5	161.6	161.8	162.0	162.2	162.3	162.1	162.0	161.8	161.6
120°	174.5	174.6	174.9	175.3	175.7	176.0	176.0	175.5	175.1	174.7	174.2
122.5°	187.7	187.8	188.0	188.2	188.4	188.6	188.6	188.2	187.9	187.6	187.3
125°	207.2	207.5	207.6	207.8	207.9	208.1	208.1	207.8	207.6	207.4	207.2
127.5°	226.6	227.0	227.2	227.2	227.4	227.6	227.4	227.0	226.5	226.0	225.6
130°	239.2	239.5	239.7	240.0	240.2	240.3	240.2	239.6	239.0	238.4	237.8
132.5°	251.7	252.0	252.1	252.3	252.5	252.7	252.4	251.8	251.3	250.7	250.1
135°	270.1	270.5	270.5	270.6	270.7	270.8	270.6	270.1	269.7	269.3	268.8
137.5°	288.3	288.6	288.4	288.2	288.0	287.9	287.6	287.2	286.8	286.5	286.2
140°	300.0	300.1	300.0	299.9	299.9	299.8	299.6	299.3	298.9	298.5	298.1
142.5°	311.2	311.3	311.1	311.0	310.9	310.8	310.5	310.2	309.8	309.4	309.1
145°	327.7	327.7	327.5	327.3	327.1	326.9	326.7	326.5	326.4	326.2	326.1
147.5°	343.2	343.2	342.9	342.7	342.5	342.3	342.0	341.9	341.6	341.3	341.0
150°	352.7	352.7	352.6	352.4	352.3	352.1	352.0	351.9	351.7	351.6	351.4
152.5°	361.4	361.3	361.2	361.1	361.0	360.9	360.8	360.5	360.3	360.1	360.0
155°	374.0	373.7	373.6	373.5	373.5	373.4	373.4	373.4	373.4	373.4	373.4
157.5°	385.0	384.7	384.7	384.6	384.6	384.5	384.5	384.6	384.7	384.7	384.8
160°	391.7	391.3	391.3	391.3	391.3	391.3	391.4	391.6	391.7	391.9	392.0
162.5°	398.1	397.8	397.8	397.7	397.6	397.6	397.6	397.8	398.0	398.2	398.4
165°	406.1	405.7	405.7	405.7	405.7	405.7	405.8	406.0	406.2	406.5	406.7
167.5°	412.6	412.3	412.2	412.1	412.1	412.0	412.1	412.4	412.7	413.0	413.3
170°	416.2	415.7	415.7	415.7	415.7	415.7	415.8	416.1	416.4	416.7	417.0
172.5°	419.1	418.6	418.6	418.6	418.6	418.6	418.8	419.1	419.3	419.6	420.0
175°	422.2	421.7	421.7	421.7	421.7	421.7	421.9	422.2	422.4	422.7	423.0
177.5°	423.6	423.2	423.2	423.2	423.2	423.2	423.3	423.6	423.8	424.0	424.2
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

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°	7.7	7.9	8.9	9.6	10.9	12.0	11.9	11.5	11.4	11.2	10.9
90°	1.0	1.8	2.5	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6
92.5°	8.6	9.0	9.6	10.1	10.6	11.1	11.7	12.3	12.8	13.0	13.3
95°	20.2	20.6	21.2	21.7	22.2	22.9	23.5	24.0	24.7	25.0	25.3
97.5°	35.3	35.7	36.1	36.5	36.9	37.3	37.7	38.2	38.5	38.9	39.2
100°	45.7	46.2	46.7	47.0	47.5	47.9	48.3	48.6	48.9	49.2	49.4
102.5°	57.6	57.8	58.1	58.3	58.7	59.2	59.8	60.2	60.7	60.9	61.2
105°	75.1	75.2	75.4	75.5	76.0	76.6	77.3	77.9	78.6	78.6	78.6
107.5°	95.6	95.7	95.8	95.9	96.0	96.2	96.5	96.8	97.1	97.3	97.6
110°	108.4	108.6	108.7	108.9	109.0	109.1	109.3	109.4	109.6	109.9	110.2

TEST NUMBER: P331911-830

CATALOG NUMBER: S123DIP-S560D365U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.7	121.8	121.9	122.0	122.0	122.1	122.1	122.1	122.2	122.4	122.8
115°	141.8	142.0	142.2	142.4	142.5	142.3	142.2	142.0	141.9	141.9	142.0
117.5°	161.8	162.0	162.1	162.3	162.2	162.0	161.8	161.6	161.5	161.5	161.5
120°	174.7	175.1	175.5	176.0	176.0	175.7	175.3	174.9	174.6	174.5	174.4
122.5°	187.6	187.9	188.2	188.6	188.6	188.4	188.2	188.0	187.8	187.7	187.5
125°	207.4	207.6	207.8	208.1	208.1	207.9	207.8	207.6	207.5	207.2	206.9
127.5°	226.0	226.5	227.0	227.4	227.6	227.4	227.2	227.2	227.0	226.6	226.1
130°	238.4	239.0	239.6	240.2	240.3	240.2	240.0	239.7	239.5	239.2	238.9
132.5°	250.7	251.3	251.8	252.4	252.7	252.5	252.3	252.1	252.0	251.7	251.3
135°	269.3	269.7	270.1	270.6	270.8	270.7	270.6	270.5	270.5	270.1	269.8
137.5°	286.5	286.8	287.2	287.6	287.9	288.0	288.2	288.4	288.6	288.3	288.0
140°	298.5	298.9	299.3	299.6	299.8	299.9	299.9	300.0	300.1	300.0	299.9
142.5°	309.4	309.8	310.2	310.5	310.8	310.9	311.0	311.1	311.3	311.2	311.1
145°	326.2	326.4	326.5	326.7	326.9	327.1	327.3	327.5	327.7	327.7	327.6
147.5°	341.3	341.6	341.9	342.0	342.3	342.5	342.7	342.9	343.2	343.2	343.2
150°	351.6	351.7	351.9	352.0	352.1	352.3	352.4	352.6	352.7	352.7	352.7
152.5°	360.1	360.3	360.5	360.8	360.9	361.0	361.1	361.2	361.3	361.4	361.5
155°	373.4	373.4	373.4	373.4	373.4	373.5	373.5	373.6	373.7	374.0	374.3
157.5°	384.7	384.7	384.6	384.5	384.5	384.6	384.6	384.7	384.7	385.0	385.3
160°	391.9	391.7	391.6	391.4	391.3	391.3	391.3	391.3	391.3	391.7	392.1
162.5°	398.2	398.0	397.8	397.6	397.6	397.6	397.7	397.8	397.8	398.1	398.5
165°	406.5	406.2	406.0	405.8	405.7	405.7	405.7	405.7	405.7	406.1	406.6
167.5°	413.0	412.7	412.4	412.1	412.0	412.1	412.1	412.2	412.3	412.6	413.1
170°	416.7	416.4	416.1	415.8	415.7	415.7	415.7	415.7	415.7	416.2	416.7
172.5°	419.6	419.3	419.1	418.8	418.6	418.6	418.6	418.6	418.6	419.1	419.5
175°	422.7	422.4	422.2	421.9	421.7	421.7	421.7	421.7	421.7	422.2	422.5
177.5°	424.0	423.8	423.6	423.3	423.2	423.2	423.2	423.2	423.2	423.6	424.0
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0

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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°	10.7	10.5	10.3	10.6	10.3	10.1	10.7
90°	8.9	9.1	9.4	9.5	9.7	9.8	10.0
92.5°	13.5	13.8	13.9	13.8	13.7	13.6	13.5
95°	25.5	25.8	26.0	26.0	26.0	26.0	26.0
97.5°	39.6	40.0	40.1	40.1	40.1	40.0	40.0
100°	49.7	49.9	50.0	50.1	50.3	50.5	50.6
102.5°	61.4	61.5	61.6	61.6	61.6	61.5	61.5
105°	78.6	78.6	78.7	78.8	79.0	79.2	79.3
107.5°	97.7	98.0	98.1	98.0	97.9	97.8	97.7
110°	110.5	110.7	110.8	110.7	110.6	110.4	110.3

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	123.2	123.6	123.7	123.7	123.7	123.6	123.6
115°	142.1	142.2	142.2	142.1	142.0	141.9	141.9
117.5°	161.5	161.5	161.3	161.1	160.9	160.7	160.5
120°	174.3	174.3	174.1	174.0	173.8	173.7	173.5
122.5°	187.3	187.1	186.9	186.7	186.4	186.2	186.1
125°	206.6	206.3	206.0	205.8	205.5	205.1	204.8
127.5°	225.7	225.3	224.9	224.6	224.2	223.9	223.6
130°	238.6	238.3	237.9	237.4	236.9	236.4	235.8
132.5°	250.9	250.6	250.2	249.8	249.4	249.0	248.6
135°	269.6	269.3	269.1	268.9	268.7	268.6	268.4
137.5°	287.8	287.4	287.1	286.8	286.5	286.3	286.0
140°	299.9	299.8	299.5	299.0	298.5	297.9	297.5
142.5°	311.0	311.0	310.8	310.4	310.0	309.5	309.2
145°	327.5	327.4	327.3	327.0	326.7	326.4	326.1
147.5°	343.2	343.2	342.9	342.5	342.0	341.6	341.1
150°	352.7	352.7	352.5	352.0	351.7	351.2	350.7
152.5°	361.7	361.7	361.6	361.2	360.8	360.4	360.1
155°	374.6	374.9	374.8	374.3	373.7	373.2	372.7
157.5°	385.7	386.0	385.9	385.5	385.1	384.7	384.3
160°	392.5	392.9	392.9	392.6	392.3	392.0	391.7
162.5°	398.9	399.3	399.2	398.7	398.2	397.8	397.3
165°	407.0	407.5	407.5	406.9	406.4	405.9	405.4
167.5°	413.6	414.1	414.1	413.6	413.1	412.6	412.3
170°	417.3	417.7	417.7	417.3	416.7	416.2	415.7
172.5°	420.0	420.5	420.5	419.9	419.4	418.9	418.4
175°	423.0	423.5	423.4	422.9	422.4	421.9	421.3
177.5°	424.2	424.6	424.6	424.2	423.8	423.4	422.9
180°	424.0	424.0	424.0	424.0	424.0	424.0	424.0

(END OF REPORT)