

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: P331920-830

Luminaire Tested: **S123DIP-S560D585U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331920-830  
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-S560D585U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

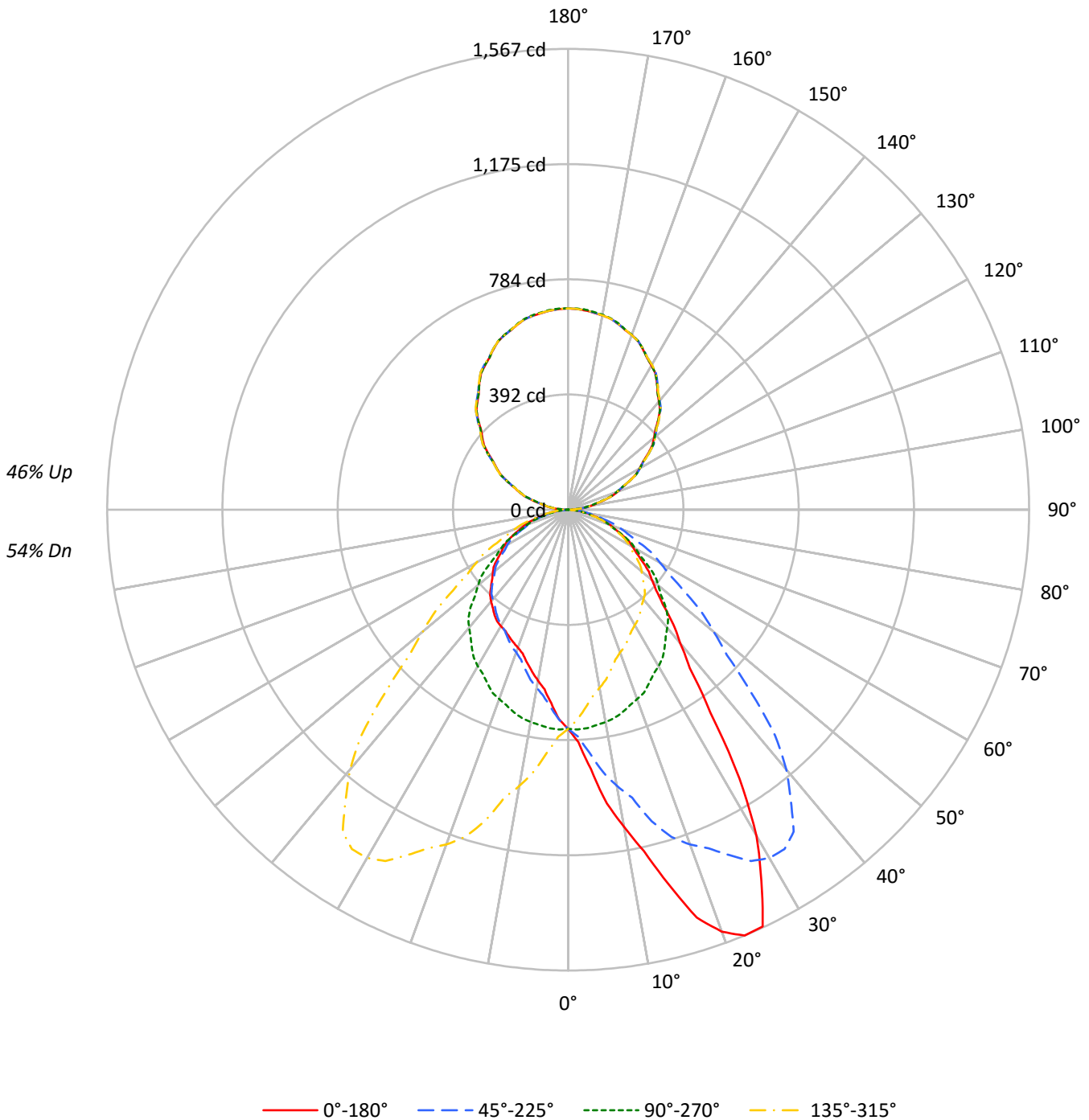
Lumens per Lamp: N/A  
Luminaire Lumens: 4147.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	14

**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	1.8
10°-20°	235.3	5.7
20°-30°	395.0	9.5
30°-40°	447.2	10.8
40°-50°	401.1	9.7
50°-60°	323.7	7.8
60°-70°	225.5	5.4
70°-80°	118.5	2.9
80°-90°	31.0	0.7
90°-100°	44.6	1.1
100°-110°	133.4	3.2
110°-120°	227.0	5.5
120°-130°	298.5	7.2
130°-140°	335.6	8.1
140°-150°	329.8	8.0
150°-160°	277.7	6.7
160°-170°	184.8	4.5
170°-180°	64.7	1.6
0°-30°	703.7	17.0
0°-40°	1151.0	27.8
0°-60°	1875.7	45.2
0°-90°	2250.8	54.3
90°-120°	405.0	9.8
90°-150°	1368.9	33.0
90°-180°	1896.0	45.7
0°-180°	4147.0	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°	16	1	16	1	16	9
95°	42	32	42	32	42	43
105°	128	121	128	121	128	136
115°	229	228	229	228	229	227
125°	331	334	331	334	331	296
135°	433	434	433	434	433	333
145°	526	526	526	526	526	329
155°	602	603	602	603	602	277
165°	654	656	654	656	654	185
175°	680	683	680	683	680	65
180°	684	684	684	684	684	



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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°	11.9	11.3	11.5	11.8	11.4	11.6	11.8	12.0	12.3	12.4	12.3
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4	21.0	20.6	19.8
95°	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7	40.2	39.8	38.8
97.5°	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3	62.8	62.3	61.5
100°	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7	79.4	79.0	78.4
102.5°	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7	98.3	97.9	97.2
105°	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9	126.9	126.9	125.8
107.5°	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4	157.0	156.7	156.3
110°	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9	177.4	176.9	176.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2	197.7	197.1	197.1
115°	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2	229.1	229.0	229.2
117.5°	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6	260.6	260.6	261.0
120°	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4	281.6	281.7	282.3
122.5°	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6	302.9	303.2	303.5
125°	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9	334.4	335.0	335.2
127.5°	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0	365.7	366.4	366.6
130°	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6	386.1	386.5	386.9
132.5°	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6	406.1	406.8	407.0
135°	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5	436.1	436.6	436.7
137.5°	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9	465.4	465.9	465.6
140°	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2	484.3	484.4	484.3
142.5°	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2	502.4	502.5	502.3
145°	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8	528.9	529.0	528.7
147.5°	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8	553.8	553.8	553.6
150°	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3	569.3	569.3	569.1
152.5°	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5	583.2	583.1	583.0
155°	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2	603.7	603.2	603.1
157.5°	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0	621.4	620.9	620.9
160°	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9	632.3	631.7	631.7
162.5°	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2	642.6	642.1	642.0
165°	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3	655.5	654.8	654.8
167.5°	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8	666.1	665.3	665.2
170°	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6	671.8	670.9	670.9
172.5°	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1	676.5	675.7	675.7
175°	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0	681.4	680.6	680.6
177.5°	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3	683.6	683.1	683.1
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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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°	12.6	12.6	11.4	10.0	9.2	8.1	7.8	7.1	6.7	7.0	6.9
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0	13.9	14.6	15.5
95°	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8	32.5	33.4	34.2
97.5°	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4	56.9	57.6	58.2
100°	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1	73.8	74.6	75.3
102.5°	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5	92.9	93.3	93.8
105°	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9	121.2	121.4	121.7
107.5°	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1	154.2	154.4	154.5
110°	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7	174.9	175.2	175.4





TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2	196.3	196.5	196.6
115°	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5	228.8	229.2	229.6
117.5°	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0	261.2	261.5	261.6
120°	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2	281.9	282.6	283.3
122.5°	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3	302.7	303.3	303.8
125°	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4	334.8	335.1	335.5
127.5°	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1	364.9	365.6	366.4
130°	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9	384.8	385.8	386.7
132.5°	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6	404.6	405.6	406.5
135°	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9	434.6	435.3	436.0
137.5°	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8	462.4	463.0	463.6
140°	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2	481.7	482.4	483.0
142.5°	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8	499.4	500.0	500.6
145°	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3	526.6	526.8	527.1
147.5°	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4	550.8	551.3	551.7
150°	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2	567.4	567.7	567.9
152.5°	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0	581.3	581.6	581.9
155°	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
157.5°	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1	621.0	620.9	620.8
160°	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7	632.5	632.3	632.1
162.5°	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1	642.7	642.4	642.1
165°	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4	656.1	655.7	655.3
167.5°	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0	666.6	666.1	665.6
170°	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1	672.6	672.1	671.7
172.5°	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8	677.3	676.8	676.4
175°	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8	682.3	681.8	681.4
177.5°	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9	684.5	684.1	683.6
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-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°	6.9	7.4	7.4	8.0	8.0	8.7	8.8	8.3	8.4	9.3	8.2
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4	21.8	22.1	22.3
95°	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7	41.2	41.7	41.9
97.5°	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3	63.9	64.5	64.7
100°	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7	80.1	80.5	80.8
102.5°	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7	99.1	99.3	99.5
105°	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9	126.9	126.9	127.0
107.5°	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4	157.8	158.2	158.3
110°	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9	178.3	178.8	178.9



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2	198.8	199.3	199.6
115°	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2	229.4	229.5	229.5
117.5°	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6	260.5	260.5	260.3
120°	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4	281.3	281.3	281.1
122.5°	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6	302.3	302.0	301.6
125°	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9	333.5	333.0	332.5
127.5°	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0	364.3	363.6	363.1
130°	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6	385.1	384.7	384.0
132.5°	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6	405.0	404.4	403.9
135°	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5	435.1	434.6	434.2
137.5°	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9	464.4	463.9	463.4
140°	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2	484.0	483.9	483.4
142.5°	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2	502.1	502.0	501.6
145°	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8	528.7	528.6	528.2
147.5°	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8	553.8	553.8	553.5
150°	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3	569.3	569.3	569.0
152.5°	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5	583.7	583.9	583.6
155°	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2	604.6	605.1	604.9
157.5°	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0	622.5	622.9	622.8
160°	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9	633.5	634.0	634.1
162.5°	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2	643.9	644.4	644.3
165°	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3	657.0	657.7	657.6
167.5°	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8	667.6	668.4	668.4
170°	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6	673.4	674.3	674.3
172.5°	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1	677.9	678.6	678.6
175°	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0	682.8	683.5	683.4
177.5°	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3	684.9	685.4	685.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-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°	8.3	8.3	8.1	7.8	8.1	8.3	8.3	8.2	9.3	8.4	8.3
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	22.1	22.0	21.9	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4
95°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7
97.5°	64.7	64.6	64.6	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3
100°	81.0	81.2	81.4	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7
102.5°	99.5	99.4	99.4	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7
105°	127.2	127.4	127.7	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9
107.5°	158.2	158.1	157.9	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4
110°	178.7	178.4	178.2	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	199.6	199.5	199.5	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2
115°	229.4	229.2	229.1	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2
117.5°	260.0	259.7	259.4	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6
120°	280.8	280.6	280.3	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4
122.5°	301.3	301.0	300.7	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6
125°	332.1	331.6	331.1	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9
127.5°	362.5	361.9	361.4	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0
130°	383.1	382.3	381.4	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6
132.5°	403.2	402.6	401.9	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6
135°	434.0	433.8	433.6	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5
137.5°	463.0	462.5	462.0	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9
140°	482.6	481.7	480.9	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2
142.5°	501.0	500.3	499.6	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2
145°	527.7	527.3	526.8	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8
147.5°	552.8	552.0	551.4	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8
150°	568.3	567.5	566.8	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3
152.5°	583.1	582.4	581.8	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5
155°	604.1	603.2	602.5	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2
157.5°	622.2	621.5	620.9	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0
160°	633.7	633.2	632.7	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9
162.5°	643.6	642.8	642.1	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2
165°	656.8	655.9	655.2	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3
167.5°	667.6	666.8	666.1	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8
170°	673.4	672.6	671.8	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6
172.5°	677.8	676.9	676.1	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1
175°	682.6	681.7	680.9	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0
177.5°	684.7	684.0	683.3	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-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°	8.8	8.7	8.0	8.0	7.4	7.4	6.9	6.9	7.0	6.7	7.1
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	21.0	20.6	19.8	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0
95°	40.2	39.8	38.8	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8
97.5°	62.8	62.3	61.5	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4
100°	79.4	79.0	78.4	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1
102.5°	98.3	97.9	97.2	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5
105°	126.9	126.9	125.8	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9
107.5°	157.0	156.7	156.3	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1
110°	177.4	176.9	176.6	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	197.7	197.1	197.1	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2
115°	229.1	229.0	229.2	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5
117.5°	260.6	260.6	261.0	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0
120°	281.6	281.7	282.3	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2
122.5°	302.9	303.2	303.5	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3
125°	334.4	335.0	335.2	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4
127.5°	365.7	366.4	366.6	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1
130°	386.1	386.5	386.9	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9
132.5°	406.1	406.8	407.0	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6
135°	436.1	436.6	436.7	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9
137.5°	465.4	465.9	465.6	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8
140°	484.3	484.4	484.3	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2
142.5°	502.4	502.5	502.3	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8
145°	528.9	529.0	528.7	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3
147.5°	553.8	553.8	553.6	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4
150°	569.3	569.3	569.1	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2
152.5°	583.2	583.1	583.0	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0
155°	603.7	603.2	603.1	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7
157.5°	621.4	620.9	620.9	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1
160°	632.3	631.7	631.7	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7
162.5°	642.6	642.1	642.0	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1
165°	655.5	654.8	654.8	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4
167.5°	666.1	665.3	665.2	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0
170°	671.8	670.9	670.9	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1
172.5°	676.5	675.7	675.7	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8
175°	681.4	680.6	680.6	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8
177.5°	683.6	683.1	683.1	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-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°	7.8	8.1	9.2	10.0	11.4	12.6	12.6	12.3	12.4	12.3	12.0
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	13.9	14.6	15.5	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4
95°	32.5	33.4	34.2	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7
97.5°	56.9	57.6	58.2	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3
100°	73.8	74.6	75.3	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7
102.5°	92.9	93.3	93.8	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7
105°	121.2	121.4	121.7	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9
107.5°	154.2	154.4	154.5	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4
110°	174.9	175.2	175.4	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9





TEST NUMBER: P331920-830

CATALOG NUMBER: S123DIP-S560D585U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.3	196.5	196.6	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2
115°	228.8	229.2	229.6	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2
117.5°	261.2	261.5	261.6	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6
120°	281.9	282.6	283.3	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4
122.5°	302.7	303.3	303.8	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6
125°	334.8	335.1	335.5	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9
127.5°	364.9	365.6	366.4	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0
130°	384.8	385.8	386.7	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6
132.5°	404.6	405.6	406.5	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6
135°	434.6	435.3	436.0	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5
137.5°	462.4	463.0	463.6	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9
140°	481.7	482.4	483.0	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2
142.5°	499.4	500.0	500.6	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2
145°	526.6	526.8	527.1	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8
147.5°	550.8	551.3	551.7	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8
150°	567.4	567.7	567.9	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3
152.5°	581.3	581.6	581.9	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5
155°	602.7	602.7	602.7	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2
157.5°	621.0	620.9	620.8	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0
160°	632.5	632.3	632.1	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9
162.5°	642.7	642.4	642.1	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2
165°	656.1	655.7	655.3	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3
167.5°	666.6	666.1	665.6	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8
170°	672.6	672.1	671.7	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6
172.5°	677.3	676.8	676.4	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1
175°	682.3	681.8	681.4	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0
177.5°	684.5	684.1	683.6	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



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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°	11.8	11.6	11.4	11.8	11.5	11.3	11.9
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	21.8	22.1	22.3	22.1	22.0	21.9	21.7
95°	41.2	41.7	41.9	41.9	41.9	41.9	41.9
97.5°	63.9	64.5	64.7	64.7	64.6	64.6	64.5
100°	80.1	80.5	80.8	81.0	81.2	81.4	81.7
102.5°	99.1	99.3	99.5	99.5	99.4	99.4	99.3
105°	126.9	126.9	127.0	127.2	127.4	127.7	128.0
107.5°	157.8	158.2	158.3	158.2	158.1	157.9	157.8
110°	178.3	178.8	178.9	178.7	178.4	178.2	178.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.8	199.3	199.6	199.6	199.5	199.5	199.4
115°	229.4	229.5	229.5	229.4	229.2	229.1	229.0
117.5°	260.5	260.5	260.3	260.0	259.7	259.4	259.0
120°	281.3	281.3	281.1	280.8	280.6	280.3	280.1
122.5°	302.3	302.0	301.6	301.3	301.0	300.7	300.3
125°	333.5	333.0	332.5	332.1	331.6	331.1	330.6
127.5°	364.3	363.6	363.1	362.5	361.9	361.4	360.8
130°	385.1	384.7	384.0	383.1	382.3	381.4	380.6
132.5°	405.0	404.4	403.9	403.2	402.6	401.9	401.2
135°	435.1	434.6	434.2	434.0	433.8	433.6	433.3
137.5°	464.4	463.9	463.4	463.0	462.5	462.0	461.6
140°	484.0	483.9	483.4	482.6	481.7	480.9	480.1
142.5°	502.1	502.0	501.6	501.0	500.3	499.6	499.0
145°	528.7	528.6	528.2	527.7	527.3	526.8	526.3
147.5°	553.8	553.8	553.5	552.8	552.0	551.4	550.6
150°	569.3	569.3	569.0	568.3	567.5	566.8	566.1
152.5°	583.7	583.9	583.6	583.1	582.4	581.8	581.2
155°	604.6	605.1	604.9	604.1	603.2	602.5	601.6
157.5°	622.5	622.9	622.8	622.2	621.5	620.9	620.2
160°	633.5	634.0	634.1	633.7	633.2	632.7	632.3
162.5°	643.9	644.4	644.3	643.6	642.8	642.1	641.3
165°	657.0	657.7	657.6	656.8	655.9	655.2	654.3
167.5°	667.6	668.4	668.4	667.6	666.8	666.1	665.3
170°	673.4	674.3	674.3	673.4	672.6	671.8	670.9
172.5°	677.9	678.6	678.6	677.8	676.9	676.1	675.2
175°	682.8	683.5	683.4	682.6	681.7	680.9	680.0
177.5°	684.9	685.4	685.3	684.7	684.0	683.3	682.7
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4

(END OF REPORT)