

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: P331930-927

Luminaire Tested: **S123DIP-S560D805U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331930-927  
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-S560D805U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4194.3 lumens  
Efficiency: N/A  
Efficacy: 109.2 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: General Diffuse

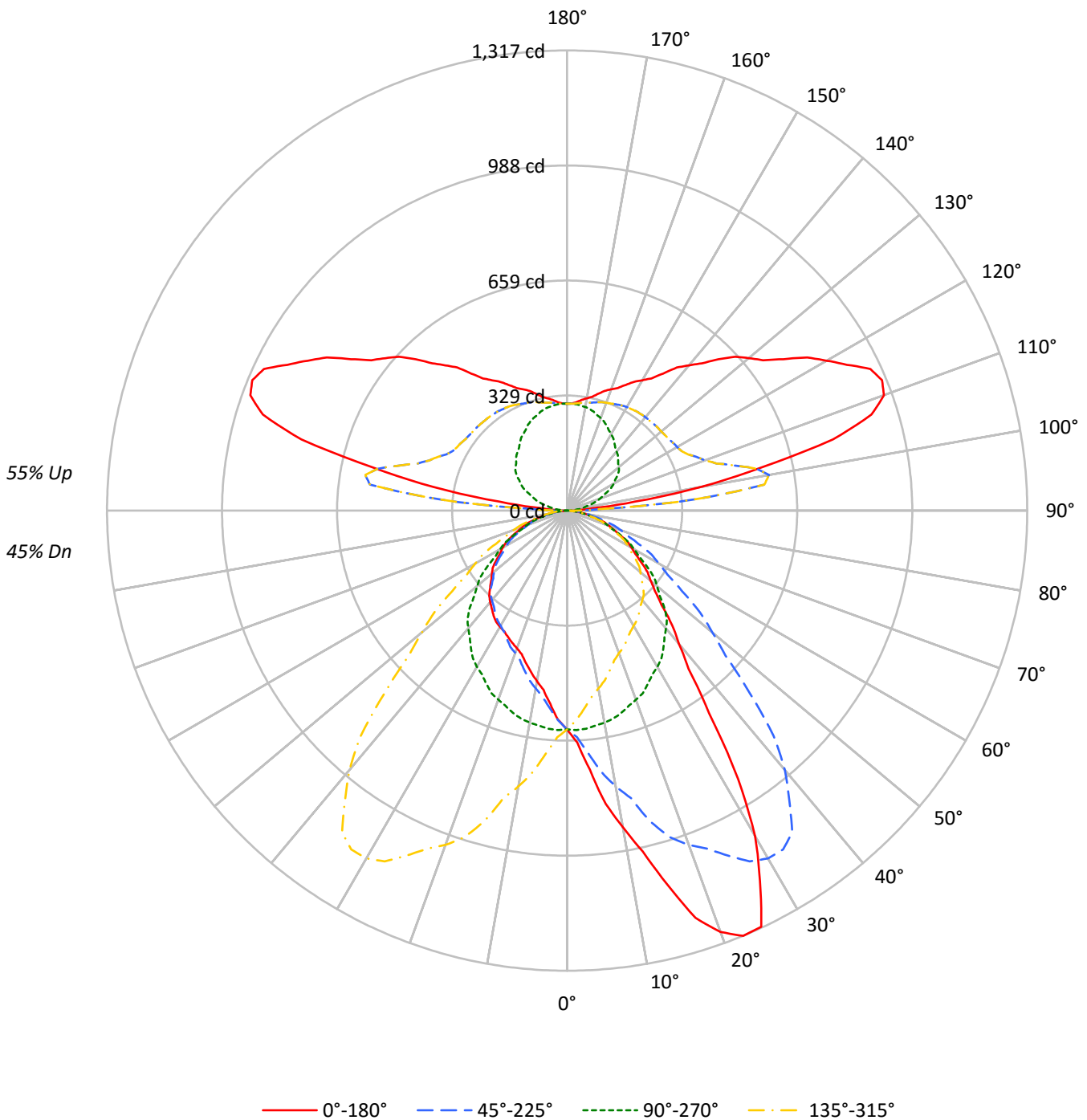
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81		66	66	66		52	52	52	45
1	97	93	89	86	89	85	82	79	71	69	67		58	56	55		46	45	44	38
2	88	81	75	70	81	75	70	65	62	59	56		51	49	46		41	39	37	33
3	81	72	64	59	74	66	60	55	55	51	47		45	42	39		36	34	32	28
4	74	63	56	50	68	59	52	47	49	44	40		41	37	34		33	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35		36	33	29		29	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30		33	29	26		27	24	21	18
7	58	46	38	32	53	42	35	31	36	31	27		30	26	23		24	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24		27	23	20		22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21		25	21	18		21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19		23	19	17		19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6740	6740	6740	6740
5°	8038	6769	5999	6769
10°	10061	6735	5418	6735
15°	12340	6681	5045	6681
20°	14701	6596	4803	6596
25°	15610	6494	4749	6494
30°	13380	6418	4774	6418
35°	9305	6311	4824	6311
40°	7009	6185	4808	6185
45°	5820	5999	4748	5999
50°	5213	5620	4706	5620
55°	4874	5210	4647	5210
60°	4573	4781	4598	4781
65°	4297	4358	4452	4358
70°	4028	3877	4239	3877
75°	3606	3394	3889	3394
80°	3155	2783	3347	2783
85°	2470	2025	2248	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	1.5
10°-20°	197.8	4.7
20°-30°	332.0	7.9
30°-40°	375.9	9.0
40°-50°	337.1	8.0
50°-60°	272.0	6.5
60°-70°	189.6	4.5
70°-80°	99.6	2.4
80°-90°	26.7	0.6
90°-100°	170.3	4.1
100°-110°	482.1	11.5
110°-120°	474.3	11.3
120°-130°	378.3	9.0
130°-140°	298.3	7.1
140°-150°	222.6	5.3
150°-160°	155.2	3.7
160°-170°	91.2	2.2
170°-180°	29.7	0.7
0°-30°	591.5	14.1
0°-40°	967.4	23.1
0°-60°	1576.5	37.6
0°-90°	1892.4	45.1
90°-120°	1126.7	26.9
90°-150°	2025.9	48.3
90°-180°	2302.0	54.9
0°-180°	4194.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	626	626	626	626	626	
5°	744	626	555	626	744	77
15°	1107	600	453	600	1107	320
25°	1314	547	400	547	1314	576
35°	708	480	367	480	708	460
45°	382	394	312	394	382	303
55°	260	278	248	278	260	233
65°	169	171	175	171	169	168
75°	87	82	94	82	87	93
85°	20	16	18	16	20	24
90°	18	1	18	1	18	11
95°	72	21	72	21	72	129
105°	788	72	788	72	788	777
115°	958	127	958	127	958	931
125°	756	176	756	176	756	685
135°	612	207	612	207	612	475
145°	479	236	479	236	479	304
155°	397	268	397	268	397	185
165°	346	293	346	293	346	99
175°	312	305	312	305	312	30
180°	306	306	306	306	306	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	664.6	664.1	662.9	663.8	661.9	659.3	659.0	656.6	649.5	649.0	647.1
5°	743.9	741.5	741.2	740.9	736.7	730.9	719.9	719.1	704.5	697.2	688.4
7.5°	846.8	848.0	843.6	839.7	826.7	818.2	806.4	791.5	773.6	755.4	743.3
10°	920.5	930.5	918.1	909.6	901.7	886.8	869.6	848.0	826.5	801.3	782.2
12.5°	999.7	1004.6	1002.1	994.0	981.8	959.2	928.5	904.8	884.9	843.0	826.1
15°	1107.4	1125.9	1114.1	1086.8	1087.4	1065.9	1025.8	981.8	958.5	921.7	871.6
17.5°	1222.3	1224.6	1219.5	1196.7	1181.5	1152.0	1115.0	1072.9	1025.5	981.1	928.0
20°	1283.4	1281.6	1271.0	1259.1	1233.0	1210.0	1169.6	1122.6	1061.9	1018.2	960.3
22.5°	1317.4	1314.3	1309.3	1299.4	1277.7	1252.9	1216.7	1165.3	1107.6	1047.3	980.4
25°	1314.3	1318.3	1318.9	1316.1	1308.6	1293.7	1265.2	1224.2	1166.6	1089.3	1019.5
27.5°	1195.4	1200.9	1217.2	1231.6	1247.7	1264.0	1261.9	1241.5	1198.9	1132.0	1046.7
30°	1076.5	1064.3	1094.4	1132.3	1158.1	1203.6	1229.1	1230.6	1206.7	1149.3	1066.1
32.5°	911.4	924.8	938.0	984.7	1041.1	1092.2	1142.9	1183.8	1188.4	1150.2	1077.5
35°	708.1	724.8	749.1	773.4	834.1	886.2	975.4	1053.1	1115.0	1123.2	1078.6
37.5°	570.6	578.9	594.2	618.5	658.2	720.2	789.2	887.3	977.0	1043.7	1046.6
40°	498.8	501.2	518.5	537.0	569.2	620.1	682.4	769.1	876.5	969.7	1008.5
42.5°	444.9	450.3	457.6	475.4	501.0	539.3	597.1	668.9	767.3	874.5	950.5
45°	382.3	388.3	392.9	404.7	422.9	448.7	489.1	554.6	629.5	740.3	842.6
47.5°	340.9	341.4	344.8	353.7	366.1	385.5	414.0	456.1	524.9	614.7	719.7
50°	311.3	316.2	317.3	324.3	334.1	348.3	372.0	407.7	464.2	543.1	639.6
52.5°	290.4	291.8	295.2	300.3	308.8	319.9	340.4	368.4	412.7	480.0	568.7
55°	259.7	259.7	263.1	267.0	271.9	281.9	295.5	316.2	349.8	402.0	475.5
57.5°	231.3	232.8	235.2	236.4	240.5	247.2	258.6	274.3	299.4	339.5	397.9
60°	212.4	215.1	214.8	217.2	220.9	226.0	235.8	248.5	270.9	303.1	352.3
62.5°	195.9	195.7	195.7	198.5	202.2	207.1	213.4	224.4	243.5	272.0	313.9
65°	168.7	168.1	170.2	172.1	173.3	176.9	181.7	191.5	204.2	225.5	257.9
67.5°	144.6	142.8	143.9	144.6	146.6	149.5	154.0	160.0	170.2	187.2	211.7
70°	128.0	126.5	126.2	126.8	128.7	130.8	134.1	139.9	149.2	163.0	180.9
72.5°	111.1	110.0	110.0	111.3	112.2	113.5	115.9	121.2	128.7	138.9	155.6
75°	86.7	86.7	86.7	87.1	88.0	89.2	91.0	93.7	99.5	106.8	118.0
77.5°	65.0	65.0	64.6	64.6	65.9	66.5	66.9	69.4	72.6	77.6	85.7
80°	50.9	49.4	50.1	50.9	51.6	51.9	52.8	53.4	56.2	58.9	64.6
82.5°	37.9	36.6	36.7	38.1	38.3	38.5	39.5	40.3	41.4	43.8	46.9
85°	20.0	20.0	20.4	20.4	20.6	20.4	21.2	21.5	21.5	23.1	24.9
87.5°	10.9	10.5	10.6	10.8	10.6	10.6	10.8	10.9	11.0	11.3	11.2
90°	18.0	18.6	18.0	17.3	18.0	16.7	16.1	15.4	14.9	15.4	13.6
92.5°	29.9	31.0	30.3	32.2	33.4	36.5	41.4	52.1	71.9	95.2	104.8
95°	71.9	74.3	78.7	84.2	96.0	118.3	151.1	223.0	297.9	367.3	327.0
97.5°	195.6	200.9	217.6	245.5	291.2	365.3	445.2	555.8	609.0	569.2	416.7
100°	388.3	387.7	411.9	457.1	519.6	607.6	680.0	730.2	708.5	586.5	396.4
102.5°	569.7	583.9	604.1	639.9	688.6	744.3	786.6	788.1	713.5	554.3	366.6
105°	787.8	790.9	810.7	834.2	862.8	878.8	867.0	805.2	675.7	498.0	330.1
107.5°	913.4	919.1	925.8	933.7	933.2	911.2	856.9	756.4	609.6	448.1	306.8
110°	965.0	966.1	967.4	962.4	945.2	901.7	823.7	709.8	567.9	419.9	297.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	975.3	975.1	970.4	955.1	923.3	867.6	780.1	663.7	531.8	401.1	292.9
115°	958.1	955.1	942.6	915.4	868.9	801.5	710.3	602.6	488.1	380.9	291.1
117.5°	903.4	899.1	881.3	850.1	801.7	733.2	651.4	558.4	461.7	369.0	292.2
120°	857.8	854.1	839.2	804.5	755.6	693.1	618.7	535.1	447.8	363.5	294.2
122.5°	815.2	810.5	794.1	762.9	719.5	661.3	592.5	516.8	436.4	360.1	297.6
125°	755.6	751.2	735.8	708.5	668.9	619.3	559.9	492.3	421.8	355.5	302.9
127.5°	706.5	702.6	688.6	665.3	630.0	584.9	531.2	471.1	408.9	353.3	308.8
130°	678.8	673.8	660.8	638.6	605.7	563.6	513.4	457.7	402.0	351.8	312.8
132.5°	651.6	648.1	636.6	614.3	583.4	543.3	496.6	445.3	395.5	351.3	315.8
135°	612.5	608.2	597.1	578.5	548.1	512.8	472.5	428.6	387.1	350.5	320.2
137.5°	571.3	568.5	559.0	540.2	514.7	484.1	449.4	413.4	379.8	349.2	323.2
140°	542.6	543.2	533.2	515.9	492.3	465.7	436.0	404.4	375.3	348.7	325.2
142.5°	515.8	516.4	507.5	492.1	472.1	448.9	423.1	396.0	371.4	347.7	326.6
145°	478.7	477.5	472.5	459.5	444.1	426.1	406.3	385.9	366.1	346.2	327.6
147.5°	448.3	447.8	443.1	434.3	422.6	409.8	393.8	377.6	360.8	343.9	327.6
150°	430.5	430.5	426.7	419.9	410.6	398.9	385.9	371.6	357.4	341.9	327.6
152.5°	415.6	415.6	413.4	407.0	399.7	389.9	378.4	366.1	353.4	339.4	326.1
155°	397.0	396.4	395.1	390.1	384.6	377.2	367.9	358.0	347.5	335.1	324.6
157.5°	380.0	380.2	379.1	375.4	370.6	364.8	357.6	349.3	340.8	331.2	322.4
160°	369.2	369.7	369.7	366.1	361.7	357.4	351.2	344.4	336.3	328.3	321.5
162.5°	359.3	359.8	359.8	356.6	353.8	349.9	344.2	338.4	331.8	325.3	319.5
165°	346.2	346.2	346.8	344.4	341.9	338.8	334.5	330.7	325.7	320.8	316.5
167.5°	333.8	333.8	334.5	332.7	331.6	329.4	326.9	324.0	320.0	316.4	313.5
170°	326.4	326.4	327.0	325.7	325.2	323.9	321.5	319.6	316.5	313.4	311.6
172.5°	319.5	320.0	321.1	319.8	319.7	318.9	317.0	315.6	313.0	310.9	310.1
175°	311.6	312.1	312.8	312.1	312.1	312.1	310.9	310.3	309.0	307.8	307.8
177.5°	307.0	307.0	307.9	307.4	307.9	307.9	307.4	307.0	306.4	305.9	306.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	645.6	643.7	641.7	638.3	635.4	631.3	630.1	628.7	624.3	620.4	617.5
5°	685.1	677.8	667.2	657.4	649.6	639.0	632.9	626.5	617.4	609.3	602.5
7.5°	726.4	712.0	695.5	677.7	661.1	645.0	632.1	620.6	607.8	595.7	586.4
10°	759.1	738.5	715.4	690.5	669.3	648.6	631.4	616.2	599.8	585.6	573.7
12.5°	796.5	765.9	734.1	703.9	678.7	650.1	629.2	609.9	591.4	574.2	560.9
15°	840.7	801.9	764.3	722.7	684.4	648.6	623.8	599.5	578.0	560.4	543.4
17.5°	881.0	837.0	787.4	736.9	690.8	648.3	613.5	586.1	559.1	537.6	520.6
20°	903.8	853.7	797.6	745.1	694.2	646.8	608.6	575.8	546.8	523.9	504.9
22.5°	923.5	864.9	806.8	750.8	694.0	642.9	599.7	565.9	534.3	512.1	491.8
25°	943.9	873.8	815.6	749.7	686.3	633.5	584.9	546.8	515.2	489.1	468.2
27.5°	961.4	873.2	804.1	733.2	674.3	621.4	569.6	528.5	495.0	466.7	445.4
30°	973.0	874.4	792.2	722.1	662.7	608.0	557.6	516.4	481.2	452.3	432.4
32.5°	980.3	873.7	781.3	706.5	644.2	595.9	544.8	502.1	465.9	437.6	418.3
35°	984.5	868.3	762.5	674.5	614.4	567.4	524.6	480.3	442.4	416.0	394.1
37.5°	976.0	857.1	740.6	643.5	577.7	531.5	495.4	457.7	421.4	392.4	373.5
40°	962.7	849.9	723.6	621.7	552.5	507.9	477.3	440.2	404.4	376.8	359.3
42.5°	937.2	835.0	705.0	597.4	526.2	481.6	453.4	422.6	388.6	362.7	345.2
45°	875.0	802.8	676.9	561.0	487.6	441.5	416.6	394.1	363.5	338.3	323.1
47.5°	788.7	754.3	636.4	522.6	447.2	402.8	376.9	358.9	336.4	316.2	301.6
50°	728.8	714.5	609.0	496.4	420.2	376.8	352.0	335.6	319.5	299.1	285.8
52.5°	659.6	668.4	576.9	469.2	392.8	350.1	326.7	313.7	299.1	282.4	270.8
55°	562.2	594.1	521.6	423.6	352.0	311.3	289.1	277.6	269.1	256.7	246.7
57.5°	471.0	511.5	461.7	376.5	311.8	276.8	255.6	243.0	237.5	231.0	223.2
60°	416.8	456.9	419.0	345.0	284.9	251.5	232.7	222.1	216.7	212.1	205.4
62.5°	368.6	409.1	377.2	312.9	258.4	227.5	211.1	200.7	196.5	194.1	188.4
65°	302.2	337.1	315.8	263.1	220.5	193.3	178.4	171.1	167.2	166.3	162.6
67.5°	246.0	272.5	257.1	218.2	184.7	161.1	148.5	142.4	139.3	139.0	136.3
70°	209.1	233.9	222.1	186.9	158.0	139.6	128.7	123.2	121.4	121.0	119.5
72.5°	180.4	197.7	188.4	159.0	136.7	119.9	111.9	106.2	104.1	104.6	103.5
75°	133.5	146.6	141.1	120.7	102.8	91.9	85.2	81.6	79.8	80.7	79.5
77.5°	96.1	104.3	99.4	85.3	74.3	66.4	61.5	59.3	57.6	57.5	57.0
80°	72.5	77.4	74.6	66.1	57.0	50.4	46.4	44.9	44.0	43.7	43.4
82.5°	51.7	55.8	52.5	46.7	40.6	36.5	34.3	32.3	31.6	31.8	31.5
85°	26.1	27.6	26.4	22.7	20.4	18.5	17.3	16.4	15.8	16.1	15.4
87.5°	11.3	11.2	10.1	8.9	8.2	7.1	6.8	6.1	5.9	6.1	6.2
90°	11.8	9.9	8.1	6.8	5.5	3.7	2.5	1.3	2.5	3.7	5.5
92.5°	78.7	52.0	35.8	26.6	21.5	16.6	11.4	7.7	11.4	16.6	21.5
95°	225.5	133.2	80.5	56.3	40.2	29.7	22.9	21.1	22.9	29.7	40.2
97.5°	247.4	143.3	93.0	66.9	51.0	41.9	36.5	35.9	36.5	41.9	51.0
100°	233.5	141.8	98.5	74.3	59.5	50.8	46.4	45.9	46.4	50.8	59.5
102.5°	221.6	143.8	104.9	82.8	69.4	61.2	57.4	56.2	57.4	61.2	69.4
105°	213.0	149.2	115.8	96.6	84.8	77.4	73.7	71.9	73.7	77.4	84.8
107.5°	212.5	159.4	130.1	112.3	101.2	93.9	90.3	88.4	90.3	93.9	101.2
110°	214.9	167.9	140.0	122.6	112.1	105.3	102.2	100.4	102.2	105.3	112.1





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CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	219.8	176.3	150.4	133.6	123.0	116.2	113.1	111.2	113.1	116.2	123.0
115°	227.9	190.1	166.6	149.9	139.3	133.2	129.4	127.0	129.4	133.2	139.3
117.5°	238.6	204.9	181.6	166.1	154.3	148.6	145.5	142.7	145.5	148.6	154.3
120°	246.5	214.3	192.0	176.5	164.8	158.5	155.4	153.6	155.4	158.5	164.8
122.5°	253.9	224.2	202.4	185.9	174.7	167.9	164.9	163.0	164.9	167.9	174.7
125°	265.7	238.4	216.7	200.0	188.3	181.5	177.8	176.5	177.8	181.5	188.3
127.5°	275.4	250.8	229.9	213.2	200.2	193.2	188.6	186.8	188.6	193.2	200.2
130°	281.8	258.3	237.8	221.1	208.1	200.7	195.1	193.2	195.1	200.7	208.1
132.5°	287.7	264.7	244.8	228.5	215.6	206.6	200.6	198.2	200.6	206.6	215.6
135°	295.4	274.3	255.2	238.4	225.5	216.2	209.4	206.8	209.4	216.2	225.5
137.5°	301.1	281.1	262.6	247.1	234.2	224.3	217.6	215.0	217.6	224.3	234.2
140°	304.1	285.5	267.5	252.1	239.7	229.8	223.6	220.5	223.6	229.8	239.7
142.5°	307.0	289.0	271.5	257.1	244.6	235.8	229.0	226.4	229.0	235.8	244.6
145°	310.3	293.6	277.5	263.2	252.7	243.4	237.8	236.0	237.8	243.4	252.7
147.5°	312.3	297.3	282.6	270.4	260.2	252.2	246.8	245.7	246.8	252.2	260.2
150°	312.8	299.8	285.5	274.3	265.7	257.6	252.7	252.1	252.7	257.6	265.7
152.5°	313.8	301.3	289.0	278.3	270.7	263.6	258.6	258.5	258.6	263.6	270.7
155°	314.0	304.1	293.6	284.9	278.1	271.9	268.2	268.2	268.2	271.9	278.1
157.5°	314.7	305.7	297.3	290.6	284.8	279.3	276.3	275.8	276.3	279.3	284.8
160°	314.7	307.2	299.8	293.6	289.2	284.3	281.8	281.8	281.8	284.3	289.2
162.5°	314.1	307.7	301.3	296.0	292.2	288.3	286.3	286.3	286.3	288.3	292.2
165°	312.8	308.4	303.5	299.1	296.7	293.6	292.3	292.9	292.3	293.6	296.7
167.5°	311.8	308.3	304.8	302.0	300.2	297.9	297.3	298.0	297.3	297.9	300.2
170°	310.3	307.8	304.8	303.5	302.2	300.4	299.8	301.0	299.8	300.4	302.2
172.5°	309.8	307.8	305.2	304.4	303.7	302.4	302.2	303.0	302.2	302.4	303.7
175°	308.4	307.2	305.9	305.3	305.3	304.1	304.8	305.3	304.8	304.1	305.3
177.5°	307.4	306.4	305.9	305.9	305.9	305.5	305.9	306.4	305.9	305.5	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	615.8	614.1	611.6	608.0	605.1	600.5	600.5	601.2	601.2	600.9	600.5
5°	597.1	592.6	587.1	580.7	574.0	567.4	566.2	563.7	561.9	560.7	559.2
7.5°	577.3	569.3	561.3	552.5	544.3	537.6	532.9	529.0	526.5	523.9	521.9
10°	564.0	554.0	544.6	535.2	524.9	516.7	511.5	507.9	505.2	502.7	501.5
12.5°	548.3	536.8	526.4	517.5	506.2	497.7	492.8	491.2	487.9	482.8	480.1
15°	525.2	514.6	502.2	488.5	483.0	472.7	466.9	464.2	462.4	458.4	457.2
17.5°	505.5	491.5	477.6	467.4	457.2	448.9	445.7	442.3	439.9	436.7	435.7
20°	489.7	477.3	464.5	453.6	443.0	433.9	431.1	428.7	426.3	424.8	423.6
22.5°	473.6	461.2	450.7	440.5	429.1	423.2	420.2	417.6	415.8	414.8	413.6
25°	451.1	440.2	428.4	419.3	410.2	406.2	404.4	402.9	401.7	400.2	399.9
27.5°	431.0	419.1	409.6	401.0	394.5	391.2	389.4	388.7	389.0	389.5	389.8
30°	416.0	405.0	397.1	389.8	383.8	380.8	380.5	380.5	381.7	382.0	382.6
32.5°	402.1	393.2	385.2	378.2	373.6	371.5	372.7	372.7	373.7	374.5	375.6
35°	382.0	374.1	368.0	361.9	358.0	358.9	359.5	360.1	361.6	363.5	364.7
37.5°	362.7	355.9	349.6	344.8	343.0	344.7	346.1	347.4	349.2	350.5	351.7
40°	348.9	343.7	337.7	333.4	334.1	334.9	336.2	337.7	339.2	340.1	341.4
42.5°	336.0	330.7	326.1	322.5	323.4	324.6	325.3	326.1	327.8	329.5	330.2
45°	316.5	312.2	307.9	305.9	306.4	307.0	307.7	308.6	310.1	311.3	311.6
47.5°	294.5	291.4	288.6	286.5	287.5	287.2	288.0	290.0	290.5	291.2	292.9
50°	280.4	277.6	274.3	273.7	273.7	273.7	273.9	276.4	276.4	277.6	278.8
52.5°	264.8	263.1	260.9	259.8	259.4	259.4	260.6	261.8	262.3	264.0	265.2
55°	241.8	240.0	238.2	237.3	236.6	237.3	239.7	240.3	241.8	242.7	243.6
57.5°	217.9	216.4	215.0	214.5	214.4	215.2	216.5	218.3	218.7	221.5	222.8
60°	202.1	199.9	198.8	198.8	198.1	200.8	200.3	203.3	203.9	205.7	207.9
62.5°	185.8	182.9	182.4	182.4	183.3	184.1	185.0	186.3	187.9	190.2	191.8
65°	159.6	158.0	160.2	159.9	159.3	161.1	161.1	162.6	164.5	166.6	169.9
67.5°	134.8	134.0	134.2	134.2	135.1	136.1	137.0	138.3	140.5	142.8	144.9
70°	118.0	118.9	117.4	118.7	119.5	119.9	120.4	122.2	124.7	126.2	128.7
72.5°	101.8	101.7	101.9	102.3	103.3	103.9	104.4	106.5	109.2	110.4	112.4
75°	78.3	78.0	78.9	78.9	80.4	81.0	81.6	82.5	84.9	86.7	88.3
77.5°	57.2	57.5	57.4	58.4	58.0	58.1	60.0	60.8	61.1	64.7	65.5
80°	43.1	43.7	44.0	44.3	44.6	44.0	46.1	47.1	47.1	49.1	50.7
82.5°	31.0	31.3	32.1	32.4	32.5	33.0	33.3	33.9	34.6	35.6	37.5
85°	15.4	16.4	16.7	16.4	16.7	16.1	17.0	17.3	17.6	17.6	17.6
87.5°	6.2	6.7	6.8	7.4	7.6	8.2	8.1	7.7	7.8	8.7	7.9
90°	6.8	8.1	9.9	11.8	13.6	15.4	14.9	15.4	16.1	16.7	18.0
92.5°	26.6	35.8	52.0	78.7	104.8	95.2	71.9	52.1	41.4	36.5	33.4
95°	56.3	80.5	133.2	225.5	327.0	367.3	297.9	223.0	151.1	118.3	96.0
97.5°	66.9	93.0	143.3	247.4	416.7	569.2	609.0	555.8	445.2	365.3	291.2
100°	74.3	98.5	141.8	233.5	396.4	586.5	708.5	730.2	680.0	607.6	519.6
102.5°	82.8	104.9	143.8	221.6	366.6	554.3	713.5	788.1	786.6	744.3	688.6
105°	96.6	115.8	149.2	213.0	330.1	498.0	675.7	805.2	867.0	878.8	862.8
107.5°	112.3	130.1	159.4	212.5	306.8	448.1	609.6	756.4	856.9	911.2	933.2
110°	122.6	140.0	167.9	214.9	297.9	419.9	567.9	709.8	823.7	901.7	945.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	133.6	150.4	176.3	219.8	292.9	401.1	531.8	663.7	780.1	867.6	923.3
115°	149.9	166.6	190.1	227.9	291.1	380.9	488.1	602.6	710.3	801.5	868.9
117.5°	166.1	181.6	204.9	238.6	292.2	369.0	461.7	558.4	651.4	733.2	801.7
120°	176.5	192.0	214.3	246.5	294.2	363.5	447.8	535.1	618.7	693.1	755.6
122.5°	185.9	202.4	224.2	253.9	297.6	360.1	436.4	516.8	592.5	661.3	719.5
125°	200.0	216.7	238.4	265.7	302.9	355.5	421.8	492.3	559.9	619.3	668.9
127.5°	213.2	229.9	250.8	275.4	308.8	353.3	408.9	471.1	531.2	584.9	630.0
130°	221.1	237.8	258.3	281.8	312.8	351.8	402.0	457.7	513.4	563.6	605.7
132.5°	228.5	244.8	264.7	287.7	315.8	351.3	395.5	445.3	496.6	543.3	583.4
135°	238.4	255.2	274.3	295.4	320.2	350.5	387.1	428.6	472.5	512.8	548.1
137.5°	247.1	262.6	281.1	301.1	323.2	349.2	379.8	413.4	449.4	484.1	514.7
140°	252.1	267.5	285.5	304.1	325.2	348.7	375.3	404.4	436.0	465.7	492.3
142.5°	257.1	271.5	289.0	307.0	326.6	347.7	371.4	396.0	423.1	448.9	472.1
145°	263.2	277.5	293.6	310.3	327.6	346.2	366.1	385.9	406.3	426.1	444.1
147.5°	270.4	282.6	297.3	312.3	327.6	343.9	360.8	377.6	393.8	409.8	422.6
150°	274.3	285.5	299.8	312.8	327.6	341.9	357.4	371.6	385.9	398.9	410.6
152.5°	278.3	289.0	301.3	313.8	326.1	339.4	353.4	366.1	378.4	389.9	399.7
155°	284.9	293.6	304.1	314.0	324.6	335.1	347.5	358.0	367.9	377.2	384.6
157.5°	290.6	297.3	305.7	314.7	322.4	331.2	340.8	349.3	357.6	364.8	370.6
160°	293.6	299.8	307.2	314.7	321.5	328.3	336.3	344.4	351.2	357.4	361.7
162.5°	296.0	301.3	307.7	314.1	319.5	325.3	331.8	338.4	344.2	349.9	353.8
165°	299.1	303.5	308.4	312.8	316.5	320.8	325.7	330.7	334.5	338.8	341.9
167.5°	302.0	304.8	308.3	311.8	313.5	316.4	320.0	324.0	326.9	329.4	331.6
170°	303.5	304.8	307.8	310.3	311.6	313.4	316.5	319.6	321.5	323.9	325.2
172.5°	304.4	305.2	307.8	309.8	310.1	310.9	313.0	315.6	317.0	318.9	319.7
175°	305.3	305.9	307.2	308.4	307.8	307.8	309.0	310.3	310.9	312.1	312.1
177.5°	305.9	305.9	306.4	307.4	306.4	305.9	306.4	307.0	307.4	307.9	307.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331930-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	598.8	598.6	600.2	599.0	600.2	598.6	598.8	600.5	600.9	601.2	601.2
5°	557.4	558.3	555.2	555.2	555.2	558.3	557.4	559.2	560.7	561.9	563.7
7.5°	520.5	519.1	519.3	517.6	519.3	519.1	520.5	521.9	523.9	526.5	529.0
10°	497.9	496.1	495.4	495.7	495.4	496.1	497.9	501.5	502.7	505.2	507.9
12.5°	479.2	478.8	474.8	474.9	474.8	478.8	479.2	480.1	482.8	487.9	491.2
15°	457.2	451.5	450.8	452.7	450.8	451.5	457.2	457.2	458.4	462.4	464.2
17.5°	435.2	432.1	432.4	431.4	432.4	432.1	435.2	435.7	436.7	439.9	442.3
20°	423.6	421.8	421.4	419.3	421.4	421.8	423.6	423.6	424.8	426.3	428.7
22.5°	412.9	412.3	412.4	410.1	412.4	412.3	412.9	413.6	414.8	415.8	417.6
25°	399.6	401.1	399.9	399.9	399.9	401.1	399.6	399.9	400.2	401.7	402.9
27.5°	390.6	390.5	389.9	389.9	389.9	390.5	390.6	389.8	389.5	389.0	388.7
30°	383.8	383.5	384.1	384.1	384.1	383.5	383.8	382.6	382.0	381.7	380.5
32.5°	377.0	377.4	377.6	377.8	377.6	377.4	377.0	375.6	374.5	373.7	372.7
35°	366.5	366.8	367.7	367.1	367.7	366.8	366.5	364.7	363.5	361.6	360.1
37.5°	352.3	353.7	353.4	353.9	353.4	353.7	352.3	351.7	350.5	349.2	347.4
40°	341.7	342.5	342.2	342.2	342.2	342.5	341.7	341.4	340.1	339.2	337.7
42.5°	330.7	331.4	330.6	330.1	330.6	331.4	330.7	330.2	329.5	327.8	326.1
45°	312.8	312.2	313.1	311.9	313.1	312.2	312.8	311.6	311.3	310.1	308.6
47.5°	292.8	293.4	293.7	294.5	293.7	293.4	292.8	292.9	291.2	290.5	290.0
50°	279.4	281.2	281.2	281.0	281.2	281.2	279.4	278.8	277.6	276.4	276.4
52.5°	266.3	267.2	268.4	268.3	268.4	267.2	266.3	265.2	264.0	262.3	261.8
55°	246.1	246.7	247.2	247.6	247.2	246.7	246.1	243.6	242.7	241.8	240.3
57.5°	225.1	224.8	226.2	226.7	226.2	224.8	225.1	222.8	221.5	218.7	218.3
60°	210.2	210.2	212.7	213.6	212.7	210.2	210.2	207.9	205.7	203.9	203.3
62.5°	194.5	195.4	197.9	196.6	197.9	195.4	194.5	191.8	190.2	187.9	186.3
65°	171.4	173.9	173.6	174.8	173.6	173.9	171.4	169.9	166.6	164.5	162.6
67.5°	147.3	148.9	151.1	151.2	151.1	148.9	147.3	144.9	142.8	140.5	138.3
70°	131.1	132.6	133.8	134.7	133.8	132.6	131.1	128.7	126.2	124.7	122.2
72.5°	115.3	116.1	119.0	117.7	119.0	116.1	115.3	112.4	110.4	109.2	106.5
75°	90.4	92.5	94.3	93.5	94.3	92.5	90.4	88.3	86.7	84.9	82.5
77.5°	66.9	69.0	69.9	69.1	69.9	69.0	66.9	65.5	64.7	61.1	60.8
80°	52.8	52.5	54.3	54.0	54.3	52.5	52.8	50.7	49.1	47.1	47.1
82.5°	38.7	38.4	39.3	39.5	39.3	38.4	38.7	37.5	35.6	34.6	33.9
85°	18.8	19.7	18.5	18.2	18.5	19.7	18.8	17.6	17.6	17.6	17.3
87.5°	7.8	7.9	7.8	7.4	7.8	7.9	7.8	7.9	8.7	7.8	7.7
90°	17.3	18.0	18.6	18.0	18.6	18.0	17.3	18.0	16.7	16.1	15.4
92.5°	32.2	30.3	31.0	29.9	31.0	30.3	32.2	33.4	36.5	41.4	52.1
95°	84.2	78.7	74.3	71.9	74.3	78.7	84.2	96.0	118.3	151.1	223.0
97.5°	245.5	217.6	200.9	195.6	200.9	217.6	245.5	291.2	365.3	445.2	555.8
100°	457.1	411.9	387.7	388.3	387.7	411.9	457.1	519.6	607.6	680.0	730.2
102.5°	639.9	604.1	583.9	569.7	583.9	604.1	639.9	688.6	744.3	786.6	788.1
105°	834.2	810.7	790.9	787.8	790.9	810.7	834.2	862.8	878.8	867.0	805.2
107.5°	933.7	925.8	919.1	913.4	919.1	925.8	933.7	933.2	911.2	856.9	756.4
110°	962.4	967.4	966.1	965.0	966.1	967.4	962.4	945.2	901.7	823.7	709.8



TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	955.1	970.4	975.1	975.3	975.1	970.4	955.1	923.3	867.6	780.1	663.7
115°	915.4	942.6	955.1	958.1	955.1	942.6	915.4	868.9	801.5	710.3	602.6
117.5°	850.1	881.3	899.1	903.4	899.1	881.3	850.1	801.7	733.2	651.4	558.4
120°	804.5	839.2	854.1	857.8	854.1	839.2	804.5	755.6	693.1	618.7	535.1
122.5°	762.9	794.1	810.5	815.2	810.5	794.1	762.9	719.5	661.3	592.5	516.8
125°	708.5	735.8	751.2	755.6	751.2	735.8	708.5	668.9	619.3	559.9	492.3
127.5°	665.3	688.6	702.6	706.5	702.6	688.6	665.3	630.0	584.9	531.2	471.1
130°	638.6	660.8	673.8	678.8	673.8	660.8	638.6	605.7	563.6	513.4	457.7
132.5°	614.3	636.6	648.1	651.6	648.1	636.6	614.3	583.4	543.3	496.6	445.3
135°	578.5	597.1	608.2	612.5	608.2	597.1	578.5	548.1	512.8	472.5	428.6
137.5°	540.2	559.0	568.5	571.3	568.5	559.0	540.2	514.7	484.1	449.4	413.4
140°	515.9	533.2	543.2	542.6	543.2	533.2	515.9	492.3	465.7	436.0	404.4
142.5°	492.1	507.5	516.4	515.8	516.4	507.5	492.1	472.1	448.9	423.1	396.0
145°	459.5	472.5	477.5	478.7	477.5	472.5	459.5	444.1	426.1	406.3	385.9
147.5°	434.3	443.1	447.8	448.3	447.8	443.1	434.3	422.6	409.8	393.8	377.6
150°	419.9	426.7	430.5	430.5	430.5	426.7	419.9	410.6	398.9	385.9	371.6
152.5°	407.0	413.4	415.6	415.6	415.6	413.4	407.0	399.7	389.9	378.4	366.1
155°	390.1	395.1	396.4	397.0	396.4	395.1	390.1	384.6	377.2	367.9	358.0
157.5°	375.4	379.1	380.2	380.0	380.2	379.1	375.4	370.6	364.8	357.6	349.3
160°	366.1	369.7	369.7	369.2	369.7	369.7	366.1	361.7	357.4	351.2	344.4
162.5°	356.6	359.8	359.8	359.3	359.8	359.8	356.6	353.8	349.9	344.2	338.4
165°	344.4	346.8	346.2	346.2	346.2	346.8	344.4	341.9	338.8	334.5	330.7
167.5°	332.7	334.5	333.8	333.8	333.8	334.5	332.7	331.6	329.4	326.9	324.0
170°	325.7	327.0	326.4	326.4	326.4	327.0	325.7	325.2	323.9	321.5	319.6
172.5°	319.8	321.1	320.0	319.5	320.0	321.1	319.8	319.7	318.9	317.0	315.6
175°	312.1	312.8	312.1	311.6	312.1	312.8	312.1	312.1	312.1	310.9	310.3
177.5°	307.4	307.9	307.0	307.0	307.0	307.9	307.4	307.9	307.9	307.4	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	600.5	600.5	605.1	608.0	611.6	614.1	615.8	617.5	620.4	624.3	628.7
5°	566.2	567.4	574.0	580.7	587.1	592.6	597.1	602.5	609.3	617.4	626.5
7.5°	532.9	537.6	544.3	552.5	561.3	569.3	577.3	586.4	595.7	607.8	620.6
10°	511.5	516.7	524.9	535.2	544.6	554.0	564.0	573.7	585.6	599.8	616.2
12.5°	492.8	497.7	506.2	517.5	526.4	536.8	548.3	560.9	574.2	591.4	609.9
15°	466.9	472.7	483.0	488.5	502.2	514.6	525.2	543.4	560.4	578.0	599.5
17.5°	445.7	448.9	457.2	467.4	477.6	491.5	505.5	520.6	537.6	559.1	586.1
20°	431.1	433.9	443.0	453.6	464.5	477.3	489.7	504.9	523.9	546.8	575.8
22.5°	420.2	423.2	429.1	440.5	450.7	461.2	473.6	491.8	512.1	534.3	565.9
25°	404.4	406.2	410.2	419.3	428.4	440.2	451.1	468.2	489.1	515.2	546.8
27.5°	389.4	391.2	394.5	401.0	409.6	419.1	431.0	445.4	466.7	495.0	528.5
30°	380.5	380.8	383.8	389.8	397.1	405.0	416.0	432.4	452.3	481.2	516.4
32.5°	372.7	371.5	373.6	378.2	385.2	393.2	402.1	418.3	437.6	465.9	502.1
35°	359.5	358.9	358.0	361.9	368.0	374.1	382.0	394.1	416.0	442.4	480.3
37.5°	346.1	344.7	343.0	344.8	349.6	355.9	362.7	373.5	392.4	421.4	457.7
40°	336.2	334.9	334.1	333.4	337.7	343.7	348.9	359.3	376.8	404.4	440.2
42.5°	325.3	324.6	323.4	322.5	326.1	330.7	336.0	345.2	362.7	388.6	422.6
45°	307.7	307.0	306.4	305.9	307.9	312.2	316.5	323.1	338.3	363.5	394.1
47.5°	288.0	287.2	287.5	286.5	288.6	291.4	294.5	301.6	316.2	336.4	358.9
50°	273.9	273.7	273.7	273.7	274.3	277.6	280.4	285.8	299.1	319.5	335.6
52.5°	260.6	259.4	259.4	259.8	260.9	263.1	264.8	270.8	282.4	299.1	313.7
55°	239.7	237.3	236.6	237.3	238.2	240.0	241.8	246.7	256.7	269.1	277.6
57.5°	216.5	215.2	214.4	214.5	215.0	216.4	217.9	223.2	231.0	237.5	243.0
60°	200.3	200.8	198.1	198.8	198.8	199.9	202.1	205.4	212.1	216.7	222.1
62.5°	185.0	184.1	183.3	182.4	182.4	182.9	185.8	188.4	194.1	196.5	200.7
65°	161.1	161.1	159.3	159.9	160.2	158.0	159.6	162.6	166.3	167.2	171.1
67.5°	137.0	136.1	135.1	134.2	134.2	134.0	134.8	136.3	139.0	139.3	142.4
70°	120.4	119.9	119.5	118.7	117.4	118.9	118.0	119.5	121.0	121.4	123.2
72.5°	104.4	103.9	103.3	102.3	101.9	101.7	101.8	103.5	104.6	104.1	106.2
75°	81.6	81.0	80.4	78.9	78.9	78.0	78.3	79.5	80.7	79.8	81.6
77.5°	60.0	58.1	58.0	58.4	57.4	57.5	57.2	57.0	57.5	57.6	59.3
80°	46.1	44.0	44.6	44.3	44.0	43.7	43.1	43.4	43.7	44.0	44.9
82.5°	33.3	33.0	32.5	32.4	32.1	31.3	31.0	31.5	31.8	31.6	32.3
85°	17.0	16.1	16.7	16.4	16.7	16.4	15.4	15.4	16.1	15.8	16.4
87.5°	8.1	8.2	7.6	7.4	6.8	6.7	6.2	6.2	6.1	5.9	6.1
90°	14.9	15.4	13.6	11.8	9.9	8.1	6.8	5.5	3.7	2.5	1.3
92.5°	71.9	95.2	104.8	78.7	52.0	35.8	26.6	21.5	16.6	11.4	7.7
95°	297.9	367.3	327.0	225.5	133.2	80.5	56.3	40.2	29.7	22.9	21.1
97.5°	609.0	569.2	416.7	247.4	143.3	93.0	66.9	51.0	41.9	36.5	35.9
100°	708.5	586.5	396.4	233.5	141.8	98.5	74.3	59.5	50.8	46.4	45.9
102.5°	713.5	554.3	366.6	221.6	143.8	104.9	82.8	69.4	61.2	57.4	56.2
105°	675.7	498.0	330.1	213.0	149.2	115.8	96.6	84.8	77.4	73.7	71.9
107.5°	609.6	448.1	306.8	212.5	159.4	130.1	112.3	101.2	93.9	90.3	88.4
110°	567.9	419.9	297.9	214.9	167.9	140.0	122.6	112.1	105.3	102.2	100.4



TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	531.8	401.1	292.9	219.8	176.3	150.4	133.6	123.0	116.2	113.1	111.2
115°	488.1	380.9	291.1	227.9	190.1	166.6	149.9	139.3	133.2	129.4	127.0
117.5°	461.7	369.0	292.2	238.6	204.9	181.6	166.1	154.3	148.6	145.5	142.7
120°	447.8	363.5	294.2	246.5	214.3	192.0	176.5	164.8	158.5	155.4	153.6
122.5°	436.4	360.1	297.6	253.9	224.2	202.4	185.9	174.7	167.9	164.9	163.0
125°	421.8	355.5	302.9	265.7	238.4	216.7	200.0	188.3	181.5	177.8	176.5
127.5°	408.9	353.3	308.8	275.4	250.8	229.9	213.2	200.2	193.2	188.6	186.8
130°	402.0	351.8	312.8	281.8	258.3	237.8	221.1	208.1	200.7	195.1	193.2
132.5°	395.5	351.3	315.8	287.7	264.7	244.8	228.5	215.6	206.6	200.6	198.2
135°	387.1	350.5	320.2	295.4	274.3	255.2	238.4	225.5	216.2	209.4	206.8
137.5°	379.8	349.2	323.2	301.1	281.1	262.6	247.1	234.2	224.3	217.6	215.0
140°	375.3	348.7	325.2	304.1	285.5	267.5	252.1	239.7	229.8	223.6	220.5
142.5°	371.4	347.7	326.6	307.0	289.0	271.5	257.1	244.6	235.8	229.0	226.4
145°	366.1	346.2	327.6	310.3	293.6	277.5	263.2	252.7	243.4	237.8	236.0
147.5°	360.8	343.9	327.6	312.3	297.3	282.6	270.4	260.2	252.2	246.8	245.7
150°	357.4	341.9	327.6	312.8	299.8	285.5	274.3	265.7	257.6	252.7	252.1
152.5°	353.4	339.4	326.1	313.8	301.3	289.0	278.3	270.7	263.6	258.6	258.5
155°	347.5	335.1	324.6	314.0	304.1	293.6	284.9	278.1	271.9	268.2	268.2
157.5°	340.8	331.2	322.4	314.7	305.7	297.3	290.6	284.8	279.3	276.3	275.8
160°	336.3	328.3	321.5	314.7	307.2	299.8	293.6	289.2	284.3	281.8	281.8
162.5°	331.8	325.3	319.5	314.1	307.7	301.3	296.0	292.2	288.3	286.3	286.3
165°	325.7	320.8	316.5	312.8	308.4	303.5	299.1	296.7	293.6	292.3	292.9
167.5°	320.0	316.4	313.5	311.8	308.3	304.8	302.0	300.2	297.9	297.3	298.0
170°	316.5	313.4	311.6	310.3	307.8	304.8	303.5	302.2	300.4	299.8	301.0
172.5°	313.0	310.9	310.1	309.8	307.8	305.2	304.4	303.7	302.4	302.2	303.0
175°	309.0	307.8	307.8	308.4	307.2	305.9	305.3	305.3	304.1	304.8	305.3
177.5°	306.4	305.9	306.4	307.4	306.4	305.9	305.9	305.9	305.5	305.9	306.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.1	631.3	635.4	638.3	641.7	643.7	645.6	647.1	649.0	649.5	656.6
5°	632.9	639.0	649.6	657.4	667.2	677.8	685.1	688.4	697.2	704.5	719.1
7.5°	632.1	645.0	661.1	677.7	695.5	712.0	726.4	743.3	755.4	773.6	791.5
10°	631.4	648.6	669.3	690.5	715.4	738.5	759.1	782.2	801.3	826.5	848.0
12.5°	629.2	650.1	678.7	703.9	734.1	765.9	796.5	826.1	843.0	884.9	904.8
15°	623.8	648.6	684.4	722.7	764.3	801.9	840.7	871.6	921.7	958.5	981.8
17.5°	613.5	648.3	690.8	736.9	787.4	837.0	881.0	928.0	981.1	1025.5	1072.9
20°	608.6	646.8	694.2	745.1	797.6	853.7	903.8	960.3	1018.2	1061.9	1122.6
22.5°	599.7	642.9	694.0	750.8	806.8	864.9	923.5	980.4	1047.3	1107.6	1165.3
25°	584.9	633.5	686.3	749.7	815.6	873.8	943.9	1019.5	1089.3	1166.6	1224.2
27.5°	569.6	621.4	674.3	733.2	804.1	873.2	961.4	1046.7	1132.0	1198.9	1241.5
30°	557.6	608.0	662.7	722.1	792.2	874.4	973.0	1066.1	1149.3	1206.7	1230.6
32.5°	544.8	595.9	644.2	706.5	781.3	873.7	980.3	1077.5	1150.2	1188.4	1183.8
35°	524.6	567.4	614.4	674.5	762.5	868.3	984.5	1078.6	1123.2	1115.0	1053.1
37.5°	495.4	531.5	577.7	643.5	740.6	857.1	976.0	1046.6	1043.7	977.0	887.3
40°	477.3	507.9	552.5	621.7	723.6	849.9	962.7	1008.5	969.7	876.5	769.1
42.5°	453.4	481.6	526.2	597.4	705.0	835.0	937.2	950.5	874.5	767.3	668.9
45°	416.6	441.5	487.6	561.0	676.9	802.8	875.0	842.6	740.3	629.5	554.6
47.5°	376.9	402.8	447.2	522.6	636.4	754.3	788.7	719.7	614.7	524.9	456.1
50°	352.0	376.8	420.2	496.4	609.0	714.5	728.8	639.6	543.1	464.2	407.7
52.5°	326.7	350.1	392.8	469.2	576.9	668.4	659.6	568.7	480.0	412.7	368.4
55°	289.1	311.3	352.0	423.6	521.6	594.1	562.2	475.5	402.0	349.8	316.2
57.5°	255.6	276.8	311.8	376.5	461.7	511.5	471.0	397.9	339.5	299.4	274.3
60°	232.7	251.5	284.9	345.0	419.0	456.9	416.8	352.3	303.1	270.9	248.5
62.5°	211.1	227.5	258.4	312.9	377.2	409.1	368.6	313.9	272.0	243.5	224.4
65°	178.4	193.3	220.5	263.1	315.8	337.1	302.2	257.9	225.5	204.2	191.5
67.5°	148.5	161.1	184.7	218.2	257.1	272.5	246.0	211.7	187.2	170.2	160.0
70°	128.7	139.6	158.0	186.9	222.1	233.9	209.1	180.9	163.0	149.2	139.9
72.5°	111.9	119.9	136.7	159.0	188.4	197.7	180.4	155.6	138.9	128.7	121.2
75°	85.2	91.9	102.8	120.7	141.1	146.6	133.5	118.0	106.8	99.5	93.7
77.5°	61.5	66.4	74.3	85.3	99.4	104.3	96.1	85.7	77.6	72.6	69.4
80°	46.4	50.4	57.0	66.1	74.6	77.4	72.5	64.6	58.9	56.2	53.4
82.5°	34.3	36.5	40.6	46.7	52.5	55.8	51.7	46.9	43.8	41.4	40.3
85°	17.3	18.5	20.4	22.7	26.4	27.6	26.1	24.9	23.1	21.5	21.5
87.5°	6.8	7.1	8.2	8.9	10.1	11.2	11.3	11.2	11.3	11.0	10.9
90°	2.5	3.7	5.5	6.8	8.1	9.9	11.8	13.6	15.4	14.9	15.4
92.5°	11.4	16.6	21.5	26.6	35.8	52.0	78.7	104.8	95.2	71.9	52.1
95°	22.9	29.7	40.2	56.3	80.5	133.2	225.5	327.0	367.3	297.9	223.0
97.5°	36.5	41.9	51.0	66.9	93.0	143.3	247.4	416.7	569.2	609.0	555.8
100°	46.4	50.8	59.5	74.3	98.5	141.8	233.5	396.4	586.5	708.5	730.2
102.5°	57.4	61.2	69.4	82.8	104.9	143.8	221.6	366.6	554.3	713.5	788.1
105°	73.7	77.4	84.8	96.6	115.8	149.2	213.0	330.1	498.0	675.7	805.2
107.5°	90.3	93.9	101.2	112.3	130.1	159.4	212.5	306.8	448.1	609.6	756.4
110°	102.2	105.3	112.1	122.6	140.0	167.9	214.9	297.9	419.9	567.9	709.8





TEST NUMBER: P331930-927

CATALOG NUMBER: S123DIP-S560D805U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.2	123.0	133.6	150.4	176.3	219.8	292.9	401.1	531.8	663.7
115°	129.4	133.2	139.3	149.9	166.6	190.1	227.9	291.1	380.9	488.1	602.6
117.5°	145.5	148.6	154.3	166.1	181.6	204.9	238.6	292.2	369.0	461.7	558.4
120°	155.4	158.5	164.8	176.5	192.0	214.3	246.5	294.2	363.5	447.8	535.1
122.5°	164.9	167.9	174.7	185.9	202.4	224.2	253.9	297.6	360.1	436.4	516.8
125°	177.8	181.5	188.3	200.0	216.7	238.4	265.7	302.9	355.5	421.8	492.3
127.5°	188.6	193.2	200.2	213.2	229.9	250.8	275.4	308.8	353.3	408.9	471.1
130°	195.1	200.7	208.1	221.1	237.8	258.3	281.8	312.8	351.8	402.0	457.7
132.5°	200.6	206.6	215.6	228.5	244.8	264.7	287.7	315.8	351.3	395.5	445.3
135°	209.4	216.2	225.5	238.4	255.2	274.3	295.4	320.2	350.5	387.1	428.6
137.5°	217.6	224.3	234.2	247.1	262.6	281.1	301.1	323.2	349.2	379.8	413.4
140°	223.6	229.8	239.7	252.1	267.5	285.5	304.1	325.2	348.7	375.3	404.4
142.5°	229.0	235.8	244.6	257.1	271.5	289.0	307.0	326.6	347.7	371.4	396.0
145°	237.8	243.4	252.7	263.2	277.5	293.6	310.3	327.6	346.2	366.1	385.9
147.5°	246.8	252.2	260.2	270.4	282.6	297.3	312.3	327.6	343.9	360.8	377.6
150°	252.7	257.6	265.7	274.3	285.5	299.8	312.8	327.6	341.9	357.4	371.6
152.5°	258.6	263.6	270.7	278.3	289.0	301.3	313.8	326.1	339.4	353.4	366.1
155°	268.2	271.9	278.1	284.9	293.6	304.1	314.0	324.6	335.1	347.5	358.0
157.5°	276.3	279.3	284.8	290.6	297.3	305.7	314.7	322.4	331.2	340.8	349.3
160°	281.8	284.3	289.2	293.6	299.8	307.2	314.7	321.5	328.3	336.3	344.4
162.5°	286.3	288.3	292.2	296.0	301.3	307.7	314.1	319.5	325.3	331.8	338.4
165°	292.3	293.6	296.7	299.1	303.5	308.4	312.8	316.5	320.8	325.7	330.7
167.5°	297.3	297.9	300.2	302.0	304.8	308.3	311.8	313.5	316.4	320.0	324.0
170°	299.8	300.4	302.2	303.5	304.8	307.8	310.3	311.6	313.4	316.5	319.6
172.5°	302.2	302.4	303.7	304.4	305.2	307.8	309.8	310.1	310.9	313.0	315.6
175°	304.8	304.1	305.3	305.3	305.9	307.2	308.4	307.8	307.8	309.0	310.3
177.5°	305.9	305.5	305.9	305.9	305.9	306.4	307.4	306.4	305.9	306.4	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	659.0	659.3	661.9	663.8	662.9	664.1	664.6
5°	719.9	730.9	736.7	740.9	741.2	741.5	743.9
7.5°	806.4	818.2	826.7	839.7	843.6	848.0	846.8
10°	869.6	886.8	901.7	909.6	918.1	930.5	920.5
12.5°	928.5	959.2	981.8	994.0	1002.1	1004.6	999.7
15°	1025.8	1065.9	1087.4	1086.8	1114.1	1125.9	1107.4
17.5°	1115.0	1152.0	1181.5	1196.7	1219.5	1224.6	1222.3
20°	1169.6	1210.0	1233.0	1259.1	1271.0	1281.6	1283.4
22.5°	1216.7	1252.9	1277.7	1299.4	1309.3	1314.3	1317.4
25°	1265.2	1293.7	1308.6	1316.1	1318.9	1318.3	1314.3
27.5°	1261.9	1264.0	1247.7	1231.6	1217.2	1200.9	1195.4
30°	1229.1	1203.6	1158.1	1132.3	1094.4	1064.3	1076.5
32.5°	1142.9	1092.2	1041.1	984.7	938.0	924.8	911.4
35°	975.4	886.2	834.1	773.4	749.1	724.8	708.1
37.5°	789.2	720.2	658.2	618.5	594.2	578.9	570.6
40°	682.4	620.1	569.2	537.0	518.5	501.2	498.8
42.5°	597.1	539.3	501.0	475.4	457.6	450.3	444.9
45°	489.1	448.7	422.9	404.7	392.9	388.3	382.3
47.5°	414.0	385.5	366.1	353.7	344.8	341.4	340.9
50°	372.0	348.3	334.1	324.3	317.3	316.2	311.3
52.5°	340.4	319.9	308.8	300.3	295.2	291.8	290.4
55°	295.5	281.9	271.9	267.0	263.1	259.7	259.7
57.5°	258.6	247.2	240.5	236.4	235.2	232.8	231.3
60°	235.8	226.0	220.9	217.2	214.8	215.1	212.4
62.5°	213.4	207.1	202.2	198.5	195.7	195.7	195.9
65°	181.7	176.9	173.3	172.1	170.2	168.1	168.7
67.5°	154.0	149.5	146.6	144.6	143.9	142.8	144.6
70°	134.1	130.8	128.7	126.8	126.2	126.5	128.0
72.5°	115.9	113.5	112.2	111.3	110.0	110.0	111.1
75°	91.0	89.2	88.0	87.1	86.7	86.7	86.7
77.5°	66.9	66.5	65.9	64.6	64.6	65.0	65.0
80°	52.8	51.9	51.6	50.9	50.1	49.4	50.9
82.5°	39.5	38.5	38.3	38.1	36.7	36.6	37.9
85°	21.2	20.4	20.6	20.4	20.4	20.0	20.0
87.5°	10.8	10.6	10.6	10.8	10.6	10.5	10.9
90°	16.1	16.7	18.0	17.3	18.0	18.6	18.0
92.5°	41.4	36.5	33.4	32.2	30.3	31.0	29.9
95°	151.1	118.3	96.0	84.2	78.7	74.3	71.9
97.5°	445.2	365.3	291.2	245.5	217.6	200.9	195.6
100°	680.0	607.6	519.6	457.1	411.9	387.7	388.3
102.5°	786.6	744.3	688.6	639.9	604.1	583.9	569.7
105°	867.0	878.8	862.8	834.2	810.7	790.9	787.8
107.5°	856.9	911.2	933.2	933.7	925.8	919.1	913.4
110°	823.7	901.7	945.2	962.4	967.4	966.1	965.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	780.1	867.6	923.3	955.1	970.4	975.1	975.3
115°	710.3	801.5	868.9	915.4	942.6	955.1	958.1
117.5°	651.4	733.2	801.7	850.1	881.3	899.1	903.4
120°	618.7	693.1	755.6	804.5	839.2	854.1	857.8
122.5°	592.5	661.3	719.5	762.9	794.1	810.5	815.2
125°	559.9	619.3	668.9	708.5	735.8	751.2	755.6
127.5°	531.2	584.9	630.0	665.3	688.6	702.6	706.5
130°	513.4	563.6	605.7	638.6	660.8	673.8	678.8
132.5°	496.6	543.3	583.4	614.3	636.6	648.1	651.6
135°	472.5	512.8	548.1	578.5	597.1	608.2	612.5
137.5°	449.4	484.1	514.7	540.2	559.0	568.5	571.3
140°	436.0	465.7	492.3	515.9	533.2	543.2	542.6
142.5°	423.1	448.9	472.1	492.1	507.5	516.4	515.8
145°	406.3	426.1	444.1	459.5	472.5	477.5	478.7
147.5°	393.8	409.8	422.6	434.3	443.1	447.8	448.3
150°	385.9	398.9	410.6	419.9	426.7	430.5	430.5
152.5°	378.4	389.9	399.7	407.0	413.4	415.6	415.6
155°	367.9	377.2	384.6	390.1	395.1	396.4	397.0
157.5°	357.6	364.8	370.6	375.4	379.1	380.2	380.0
160°	351.2	357.4	361.7	366.1	369.7	369.7	369.2
162.5°	344.2	349.9	353.8	356.6	359.8	359.8	359.3
165°	334.5	338.8	341.9	344.4	346.8	346.2	346.2
167.5°	326.9	329.4	331.6	332.7	334.5	333.8	333.8
170°	321.5	323.9	325.2	325.7	327.0	326.4	326.4
172.5°	317.0	318.9	319.7	319.8	321.1	320.0	319.5
175°	310.9	312.1	312.1	312.1	312.8	312.1	311.6
177.5°	307.4	307.9	307.9	307.4	307.9	307.0	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9

(END OF REPORT)