

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: P331948-927

Luminaire Tested: **S123DIP-S560D1195U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331948-927  
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-S560D1195U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5314.4 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

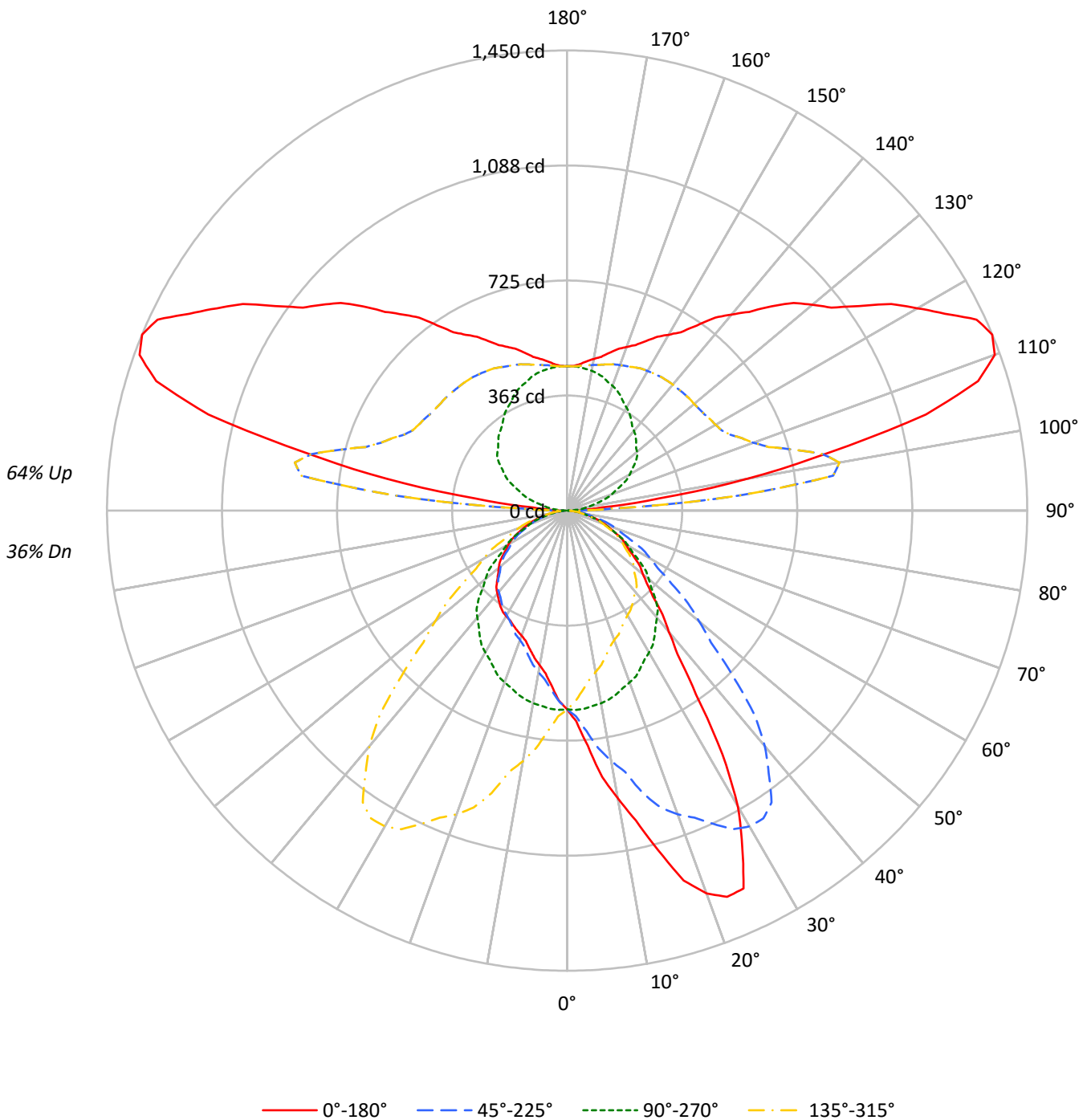
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	50	30	10	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36			36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37	30			30
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26			26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	27	22			22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19			19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17			17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15			15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13			13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12			12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	10			10
10	45	33	26	22	41	31	25	20	25	21	17	20	17	14	16	13	12	9			9

**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	1.2
10°-20°	197.8	3.7
20°-30°	332.0	6.2
30°-40°	375.9	7.1
40°-50°	337.1	6.3
50°-60°	272.0	5.1
60°-70°	189.6	3.6
70°-80°	99.6	1.9
80°-90°	27.9	0.5
90°-100°	253.0	4.8
100°-110°	716.5	13.5
110°-120°	704.8	13.3
120°-130°	562.2	10.6
130°-140°	443.3	8.3
140°-150°	330.8	6.2
150°-160°	230.6	4.3
160°-170°	135.5	2.5
170°-180°	44.1	0.8
0°-30°	591.5	11.1
0°-40°	967.4	18.2
0°-60°	1576.5	29.7
0°-90°	1893.6	35.6
90°-120°	1674.3	31.5
90°-150°	3010.6	56.7
90°-180°	3421.0	64.4
0°-180°	5314.4	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°	27	2	27	2	27	15
95°	107	31	107	31	107	192
105°	1171	107	1171	107	1171	1155
115°	1424	189	1424	189	1424	1383
125°	1123	262	1123	262	1123	1018
135°	910	307	910	307	910	706
145°	712	351	712	351	712	452
155°	590	398	590	398	590	275
165°	514	435	514	435	514	147
175°	463	454	463	454	463	45
180°	455	455	455	455	455	



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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°	12.6	12.4	12.4	12.4	12.4	12.3	12.3	12.4	12.4	12.8	12.5
90°	26.7	27.6	26.7	25.7	26.7	24.9	23.9	23.0	22.1	23.0	20.3
92.5°	44.4	46.0	45.1	47.8	49.5	54.3	61.5	77.5	106.8	141.6	155.7
95°	106.8	110.4	116.9	125.2	142.7	175.8	224.6	331.4	442.7	545.8	486.0
97.5°	290.7	298.6	323.4	364.9	432.8	542.9	661.6	825.9	904.9	845.8	619.2
100°	577.1	576.2	612.0	679.2	772.2	902.9	1010.6	1085.1	1053.0	871.6	589.1
102.5°	846.6	867.8	897.8	950.9	1023.3	1106.1	1168.9	1171.3	1060.3	823.8	544.9
105°	1170.8	1175.4	1204.8	1239.8	1282.1	1306.1	1288.6	1196.5	1004.2	740.0	490.6
107.5°	1357.4	1365.9	1375.8	1387.6	1386.9	1354.1	1273.4	1123.9	905.9	666.0	456.0
110°	1434.0	1435.8	1437.7	1430.3	1404.5	1340.1	1224.2	1054.8	844.0	624.0	442.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1449.5	1449.1	1442.1	1419.3	1372.1	1289.3	1159.4	986.3	790.3	596.0	435.4
115°	1423.9	1419.3	1400.8	1360.3	1291.3	1191.0	1055.7	895.6	725.2	566.0	432.6
117.5°	1342.5	1336.3	1309.7	1263.4	1191.4	1089.6	968.0	829.8	686.0	548.3	434.3
120°	1274.8	1269.2	1247.1	1195.6	1122.9	1029.9	919.5	795.2	665.4	540.3	437.2
122.5°	1211.4	1204.4	1180.1	1133.8	1069.1	982.8	880.4	767.9	648.5	535.1	442.4
125°	1122.9	1116.4	1093.4	1053.0	994.0	920.4	832.0	731.7	626.8	528.3	450.0
127.5°	1050.0	1044.1	1023.3	988.7	936.2	869.2	789.5	700.1	607.7	525.0	458.9
130°	1008.8	1001.4	982.1	949.0	900.2	837.6	763.0	680.2	597.3	522.8	464.8
132.5°	968.3	963.1	945.9	912.8	867.0	807.4	738.0	661.8	587.8	522.0	469.2
135°	910.3	903.8	887.2	859.7	814.5	762.1	702.3	636.9	575.3	520.9	475.9
137.5°	849.0	844.7	830.8	802.8	764.9	719.4	667.8	614.3	564.4	518.9	480.3
140°	806.3	807.2	792.5	766.7	731.7	692.1	647.9	601.0	557.8	518.2	483.2
142.5°	766.5	767.4	754.2	731.3	701.6	667.1	628.8	588.5	551.8	516.7	485.4
145°	711.5	709.6	702.3	682.9	659.9	633.3	603.8	573.4	544.0	514.5	486.9
147.5°	666.1	665.4	658.5	645.4	627.9	609.0	585.2	561.1	536.2	511.0	486.9
150°	639.7	639.7	634.1	624.0	610.2	592.7	573.4	552.2	531.1	508.0	486.9
152.5°	617.6	617.6	614.3	604.9	594.1	579.5	562.4	544.2	525.2	504.4	484.7
155°	589.9	589.1	587.2	579.9	571.6	560.5	546.7	532.0	516.3	498.0	482.3
157.5°	564.7	564.9	563.5	557.9	550.7	542.1	531.5	519.1	506.4	492.3	479.2
160°	548.6	549.5	549.5	544.0	537.5	531.1	521.9	511.7	499.8	487.8	477.7
162.5°	533.9	534.7	534.7	530.0	525.7	520.0	511.6	502.9	493.1	483.4	474.8
165°	514.5	514.5	515.4	511.7	508.0	503.4	497.0	491.5	484.1	476.7	470.3
167.5°	496.1	496.1	497.0	494.4	492.8	489.5	485.8	481.6	475.5	470.2	465.9
170°	485.1	485.1	486.0	484.1	483.2	481.3	477.7	474.9	470.3	465.7	463.0
172.5°	474.8	475.5	477.1	475.3	475.1	474.0	471.0	469.1	465.2	462.0	460.7
175°	463.0	463.9	464.8	463.9	463.9	463.9	462.0	461.1	459.3	457.4	457.4
177.5°	456.1	456.1	457.6	456.9	457.6	457.6	456.9	456.1	455.4	454.7	455.4
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



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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°	12.5	12.2	10.9	9.6	8.7	7.4	7.1	6.2	6.1	6.4	6.7
90°	17.5	14.7	12.0	10.1	8.3	5.5	3.6	1.8	3.6	5.5	8.3
92.5°	116.9	77.3	53.2	39.6	31.8	24.6	17.0	11.4	17.0	24.6	31.8
95°	335.0	197.9	119.6	83.7	59.8	44.2	34.1	31.3	34.1	44.2	59.8
97.5°	367.6	213.0	138.2	99.4	75.8	62.2	54.3	53.4	54.3	62.2	75.8
100°	347.0	210.8	146.3	110.4	88.3	75.5	69.0	68.1	69.0	75.5	88.3
102.5°	329.3	213.7	155.9	122.9	103.1	90.9	85.2	83.6	85.2	90.9	103.1
105°	316.6	221.8	172.1	143.5	126.1	115.0	109.6	106.8	109.6	115.0	126.1
107.5°	315.7	236.9	193.3	166.8	150.4	139.5	134.2	131.4	134.2	139.5	150.4
110°	319.4	249.5	208.0	182.2	166.6	156.5	151.9	149.1	151.9	156.5	166.6





TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.8	262.0	223.5	198.4	182.8	172.7	168.1	165.3	168.1	172.7	182.8
115°	338.7	282.6	247.6	222.8	207.1	197.9	192.3	188.7	192.3	197.9	207.1
117.5°	354.5	304.4	269.9	246.8	229.3	220.9	216.3	212.1	216.3	220.9	229.3
120°	366.3	318.5	285.3	262.3	244.9	235.6	231.0	228.2	231.0	235.6	244.9
122.5°	377.4	333.2	300.8	276.3	259.5	249.6	245.0	242.2	245.0	249.6	259.5
125°	394.8	354.3	322.1	297.3	279.8	269.7	264.2	262.3	264.2	269.7	279.8
127.5°	409.2	372.7	341.7	316.8	297.5	287.2	280.4	277.6	280.4	287.2	297.5
130°	418.7	383.8	353.4	328.6	309.3	298.2	289.9	287.2	289.9	298.2	309.3
132.5°	427.6	393.4	363.8	339.6	320.3	307.0	298.0	294.5	298.0	307.0	320.3
135°	439.0	407.7	379.2	354.3	335.0	321.2	311.1	307.4	311.1	321.2	335.0
137.5°	447.5	417.6	390.2	367.3	348.1	333.4	323.4	319.6	323.4	333.4	348.1
140°	451.9	424.3	397.6	374.6	356.2	341.4	332.2	327.6	332.2	341.4	356.2
142.5°	456.3	429.4	403.5	382.0	363.5	350.3	340.4	336.5	340.4	350.3	363.5
145°	461.1	436.3	412.3	391.2	375.5	361.7	353.4	350.7	353.4	361.7	375.5
147.5°	464.1	441.8	419.9	401.9	386.7	374.8	366.7	365.0	366.7	374.8	386.7
150°	464.8	445.4	424.3	407.7	394.8	382.9	375.5	374.6	375.5	382.9	394.8
152.5°	466.3	447.7	429.4	413.6	402.2	391.7	384.4	384.2	384.4	391.7	402.2
155°	466.7	451.9	436.3	423.3	413.3	404.1	398.5	398.5	398.5	404.1	413.3
157.5°	467.5	454.3	441.8	431.8	423.2	415.1	410.7	410.0	410.7	415.1	423.2
160°	467.5	456.5	445.4	436.3	429.8	422.5	418.7	418.7	418.7	422.5	429.8
162.5°	466.8	457.2	447.7	440.0	434.3	428.3	425.4	425.4	425.4	428.3	434.3
165°	464.8	458.4	451.0	444.6	440.8	436.3	434.4	435.4	434.4	436.3	440.8
167.5°	463.3	458.2	452.8	448.8	446.2	442.7	441.8	442.9	441.8	442.7	446.2
170°	461.1	457.4	452.8	451.0	449.2	446.4	445.4	447.3	445.4	446.4	449.2
172.5°	460.4	457.4	453.6	452.5	451.4	449.3	449.2	450.3	449.2	449.3	451.4
175°	458.4	456.5	454.7	453.8	453.8	451.9	452.8	453.8	452.8	451.9	453.8
177.5°	456.9	455.4	454.7	454.7	454.7	453.9	454.7	455.4	454.7	453.9	454.7
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-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°	6.9	7.5	7.8	8.6	8.9	9.7	9.5	9.2	9.4	10.3	9.7
90°	10.1	12.0	14.7	17.5	20.3	23.0	22.1	23.0	23.9	24.9	26.7
92.5°	39.6	53.2	77.3	116.9	155.7	141.6	106.8	77.5	61.5	54.3	49.5
95°	83.7	119.6	197.9	335.0	486.0	545.8	442.7	331.4	224.6	175.8	142.7
97.5°	99.4	138.2	213.0	367.6	619.2	845.8	904.9	825.9	661.6	542.9	432.8
100°	110.4	146.3	210.8	347.0	589.1	871.6	1053.0	1085.1	1010.6	902.9	772.2
102.5°	122.9	155.9	213.7	329.3	544.9	823.8	1060.3	1171.3	1168.9	1106.1	1023.3
105°	143.5	172.1	221.8	316.6	490.6	740.0	1004.2	1196.5	1288.6	1306.1	1282.1
107.5°	166.8	193.3	236.9	315.7	456.0	666.0	905.9	1123.9	1273.4	1354.1	1386.9
110°	182.2	208.0	249.5	319.4	442.7	624.0	844.0	1054.8	1224.2	1340.1	1404.5



TEST NUMBER: P331948-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.4	223.5	262.0	326.8	435.4	596.0	790.3	986.3	1159.4	1289.3	1372.1
115°	222.8	247.6	282.6	338.7	432.6	566.0	725.2	895.6	1055.7	1191.0	1291.3
117.5°	246.8	269.9	304.4	354.5	434.3	548.3	686.0	829.8	968.0	1089.6	1191.4
120°	262.3	285.3	318.5	366.3	437.2	540.3	665.4	795.2	919.5	1029.9	1122.9
122.5°	276.3	300.8	333.2	377.4	442.4	535.1	648.5	767.9	880.4	982.8	1069.1
125°	297.3	322.1	354.3	394.8	450.0	528.3	626.8	731.7	832.0	920.4	994.0
127.5°	316.8	341.7	372.7	409.2	458.9	525.0	607.7	700.1	789.5	869.2	936.2
130°	328.6	353.4	383.8	418.7	464.8	522.8	597.3	680.2	763.0	837.6	900.2
132.5°	339.6	363.8	393.4	427.6	469.2	522.0	587.8	661.8	738.0	807.4	867.0
135°	354.3	379.2	407.7	439.0	475.9	520.9	575.3	636.9	702.3	762.1	814.5
137.5°	367.3	390.2	417.6	447.5	480.3	518.9	564.4	614.3	667.8	719.4	764.9
140°	374.6	397.6	424.3	451.9	483.2	518.2	557.8	601.0	647.9	692.1	731.7
142.5°	382.0	403.5	429.4	456.3	485.4	516.7	551.8	588.5	628.8	667.1	701.6
145°	391.2	412.3	436.3	461.1	486.9	514.5	544.0	573.4	603.8	633.3	659.9
147.5°	401.9	419.9	441.8	464.1	486.9	511.0	536.2	561.1	585.2	609.0	627.9
150°	407.7	424.3	445.4	464.8	486.9	508.0	531.1	552.2	573.4	592.7	610.2
152.5°	413.6	429.4	447.7	466.3	484.7	504.4	525.2	544.2	562.4	579.5	594.1
155°	423.3	436.3	451.9	466.7	482.3	498.0	516.3	532.0	546.7	560.5	571.6
157.5°	431.8	441.8	454.3	467.5	479.2	492.3	506.4	519.1	531.5	542.1	550.7
160°	436.3	445.4	456.5	467.5	477.7	487.8	499.8	511.7	521.9	531.1	537.5
162.5°	440.0	447.7	457.2	466.8	474.8	483.4	493.1	502.9	511.6	520.0	525.7
165°	444.6	451.0	458.4	464.8	470.3	476.7	484.1	491.5	497.0	503.4	508.0
167.5°	448.8	452.8	458.2	463.3	465.9	470.2	475.5	481.6	485.8	489.5	492.8
170°	451.0	452.8	457.4	461.1	463.0	465.7	470.3	474.9	477.7	481.3	483.2
172.5°	452.5	453.6	457.4	460.4	460.7	462.0	465.2	469.1	471.0	474.0	475.1
175°	453.8	454.7	456.5	458.4	457.4	457.4	459.3	461.1	462.0	463.9	463.9
177.5°	454.7	454.7	455.4	456.9	455.4	454.7	455.4	456.1	456.9	457.6	457.6
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-UDD-A4

**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°	9.5	9.7	9.7	9.2	9.7	9.7	9.5	9.7	10.3	9.4	9.2
90°	25.7	26.7	27.6	26.7	27.6	26.7	25.7	26.7	24.9	23.9	23.0
92.5°	47.8	45.1	46.0	44.4	46.0	45.1	47.8	49.5	54.3	61.5	77.5
95°	125.2	116.9	110.4	106.8	110.4	116.9	125.2	142.7	175.8	224.6	331.4
97.5°	364.9	323.4	298.6	290.7	298.6	323.4	364.9	432.8	542.9	661.6	825.9
100°	679.2	612.0	576.2	577.1	576.2	612.0	679.2	772.2	902.9	1010.6	1085.1
102.5°	950.9	897.8	867.8	846.6	867.8	897.8	950.9	1023.3	1106.1	1168.9	1171.3
105°	1239.8	1204.8	1175.4	1170.8	1175.4	1204.8	1239.8	1282.1	1306.1	1288.6	1196.5
107.5°	1387.6	1375.8	1365.9	1357.4	1365.9	1375.8	1387.6	1386.9	1354.1	1273.4	1123.9
110°	1430.3	1437.7	1435.8	1434.0	1435.8	1437.7	1430.3	1404.5	1340.1	1224.2	1054.8



TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1419.3	1442.1	1449.1	1449.5	1449.1	1442.1	1419.3	1372.1	1289.3	1159.4	986.3
115°	1360.3	1400.8	1419.3	1423.9	1419.3	1400.8	1360.3	1291.3	1191.0	1055.7	895.6
117.5°	1263.4	1309.7	1336.3	1342.5	1336.3	1309.7	1263.4	1191.4	1089.6	968.0	829.8
120°	1195.6	1247.1	1269.2	1274.8	1269.2	1247.1	1195.6	1122.9	1029.9	919.5	795.2
122.5°	1133.8	1180.1	1204.4	1211.4	1204.4	1180.1	1133.8	1069.1	982.8	880.4	767.9
125°	1053.0	1093.4	1116.4	1122.9	1116.4	1093.4	1053.0	994.0	920.4	832.0	731.7
127.5°	988.7	1023.3	1044.1	1050.0	1044.1	1023.3	988.7	936.2	869.2	789.5	700.1
130°	949.0	982.1	1001.4	1008.8	1001.4	982.1	949.0	900.2	837.6	763.0	680.2
132.5°	912.8	945.9	963.1	968.3	963.1	945.9	912.8	867.0	807.4	738.0	661.8
135°	859.7	887.2	903.8	910.3	903.8	887.2	859.7	814.5	762.1	702.3	636.9
137.5°	802.8	830.8	844.7	849.0	844.7	830.8	802.8	764.9	719.4	667.8	614.3
140°	766.7	792.5	807.2	806.3	807.2	792.5	766.7	731.7	692.1	647.9	601.0
142.5°	731.3	754.2	767.4	766.5	767.4	754.2	731.3	701.6	667.1	628.8	588.5
145°	682.9	702.3	709.6	711.5	709.6	702.3	682.9	659.9	633.3	603.8	573.4
147.5°	645.4	658.5	665.4	666.1	665.4	658.5	645.4	627.9	609.0	585.2	561.1
150°	624.0	634.1	639.7	639.7	639.7	634.1	624.0	610.2	592.7	573.4	552.2
152.5°	604.9	614.3	617.6	617.6	617.6	614.3	604.9	594.1	579.5	562.4	544.2
155°	579.9	587.2	589.1	589.9	589.1	587.2	579.9	571.6	560.5	546.7	532.0
157.5°	557.9	563.5	564.9	564.7	564.9	563.5	557.9	550.7	542.1	531.5	519.1
160°	544.0	549.5	549.5	548.6	549.5	549.5	544.0	537.5	531.1	521.9	511.7
162.5°	530.0	534.7	534.7	533.9	534.7	534.7	530.0	525.7	520.0	511.6	502.9
165°	511.7	515.4	514.5	514.5	514.5	515.4	511.7	508.0	503.4	497.0	491.5
167.5°	494.4	497.0	496.1	496.1	496.1	497.0	494.4	492.8	489.5	485.8	481.6
170°	484.1	486.0	485.1	485.1	485.1	486.0	484.1	483.2	481.3	477.7	474.9
172.5°	475.3	477.1	475.5	474.8	475.5	477.1	475.3	475.1	474.0	471.0	469.1
175°	463.9	464.8	463.9	463.0	463.9	464.8	463.9	463.9	463.9	462.0	461.1
177.5°	456.9	457.6	456.1	456.1	456.1	457.6	456.9	457.6	457.6	456.9	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-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°	9.5	9.7	8.9	8.6	7.8	7.5	6.9	6.7	6.4	6.1	6.2
90°	22.1	23.0	20.3	17.5	14.7	12.0	10.1	8.3	5.5	3.6	1.8
92.5°	106.8	141.6	155.7	116.9	77.3	53.2	39.6	31.8	24.6	17.0	11.4
95°	442.7	545.8	486.0	335.0	197.9	119.6	83.7	59.8	44.2	34.1	31.3
97.5°	904.9	845.8	619.2	367.6	213.0	138.2	99.4	75.8	62.2	54.3	53.4
100°	1053.0	871.6	589.1	347.0	210.8	146.3	110.4	88.3	75.5	69.0	68.1
102.5°	1060.3	823.8	544.9	329.3	213.7	155.9	122.9	103.1	90.9	85.2	83.6
105°	1004.2	740.0	490.6	316.6	221.8	172.1	143.5	126.1	115.0	109.6	106.8
107.5°	905.9	666.0	456.0	315.7	236.9	193.3	166.8	150.4	139.5	134.2	131.4
110°	844.0	624.0	442.7	319.4	249.5	208.0	182.2	166.6	156.5	151.9	149.1



TEST NUMBER: P331948-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	790.3	596.0	435.4	326.8	262.0	223.5	198.4	182.8	172.7	168.1	165.3
115°	725.2	566.0	432.6	338.7	282.6	247.6	222.8	207.1	197.9	192.3	188.7
117.5°	686.0	548.3	434.3	354.5	304.4	269.9	246.8	229.3	220.9	216.3	212.1
120°	665.4	540.3	437.2	366.3	318.5	285.3	262.3	244.9	235.6	231.0	228.2
122.5°	648.5	535.1	442.4	377.4	333.2	300.8	276.3	259.5	249.6	245.0	242.2
125°	626.8	528.3	450.0	394.8	354.3	322.1	297.3	279.8	269.7	264.2	262.3
127.5°	607.7	525.0	458.9	409.2	372.7	341.7	316.8	297.5	287.2	280.4	277.6
130°	597.3	522.8	464.8	418.7	383.8	353.4	328.6	309.3	298.2	289.9	287.2
132.5°	587.8	522.0	469.2	427.6	393.4	363.8	339.6	320.3	307.0	298.0	294.5
135°	575.3	520.9	475.9	439.0	407.7	379.2	354.3	335.0	321.2	311.1	307.4
137.5°	564.4	518.9	480.3	447.5	417.6	390.2	367.3	348.1	333.4	323.4	319.6
140°	557.8	518.2	483.2	451.9	424.3	397.6	374.6	356.2	341.4	332.2	327.6
142.5°	551.8	516.7	485.4	456.3	429.4	403.5	382.0	363.5	350.3	340.4	336.5
145°	544.0	514.5	486.9	461.1	436.3	412.3	391.2	375.5	361.7	353.4	350.7
147.5°	536.2	511.0	486.9	464.1	441.8	419.9	401.9	386.7	374.8	366.7	365.0
150°	531.1	508.0	486.9	464.8	445.4	424.3	407.7	394.8	382.9	375.5	374.6
152.5°	525.2	504.4	484.7	466.3	447.7	429.4	413.6	402.2	391.7	384.4	384.2
155°	516.3	498.0	482.3	466.7	451.9	436.3	423.3	413.3	404.1	398.5	398.5
157.5°	506.4	492.3	479.2	467.5	454.3	441.8	431.8	423.2	415.1	410.7	410.0
160°	499.8	487.8	477.7	467.5	456.5	445.4	436.3	429.8	422.5	418.7	418.7
162.5°	493.1	483.4	474.8	466.8	457.2	447.7	440.0	434.3	428.3	425.4	425.4
165°	484.1	476.7	470.3	464.8	458.4	451.0	444.6	440.8	436.3	434.4	435.4
167.5°	475.5	470.2	465.9	463.3	458.2	452.8	448.8	446.2	442.7	441.8	442.9
170°	470.3	465.7	463.0	461.1	457.4	452.8	451.0	449.2	446.4	445.4	447.3
172.5°	465.2	462.0	460.7	460.4	457.4	453.6	452.5	451.4	449.3	449.2	450.3
175°	459.3	457.4	457.4	458.4	456.5	454.7	453.8	453.8	451.9	452.8	453.8
177.5°	455.4	454.7	455.4	456.9	455.4	454.7	454.7	454.7	453.9	454.7	455.4
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P331948-927

CATALOG NUMBER: S123DIP-S560D1195U927-4F0-1E-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°	7.1	7.4	8.7	9.6	10.9	12.2	12.5	12.5	12.8	12.4	12.4
90°	3.6	5.5	8.3	10.1	12.0	14.7	17.5	20.3	23.0	22.1	23.0
92.5°	17.0	24.6	31.8	39.6	53.2	77.3	116.9	155.7	141.6	106.8	77.5
95°	34.1	44.2	59.8	83.7	119.6	197.9	335.0	486.0	545.8	442.7	331.4
97.5°	54.3	62.2	75.8	99.4	138.2	213.0	367.6	619.2	845.8	904.9	825.9
100°	69.0	75.5	88.3	110.4	146.3	210.8	347.0	589.1	871.6	1053.0	1085.1
102.5°	85.2	90.9	103.1	122.9	155.9	213.7	329.3	544.9	823.8	1060.3	1171.3
105°	109.6	115.0	126.1	143.5	172.1	221.8	316.6	490.6	740.0	1004.2	1196.5
107.5°	134.2	139.5	150.4	166.8	193.3	236.9	315.7	456.0	666.0	905.9	1123.9
110°	151.9	156.5	166.6	182.2	208.0	249.5	319.4	442.7	624.0	844.0	1054.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.1	172.7	182.8	198.4	223.5	262.0	326.8	435.4	596.0	790.3	986.3
115°	192.3	197.9	207.1	222.8	247.6	282.6	338.7	432.6	566.0	725.2	895.6
117.5°	216.3	220.9	229.3	246.8	269.9	304.4	354.5	434.3	548.3	686.0	829.8
120°	231.0	235.6	244.9	262.3	285.3	318.5	366.3	437.2	540.3	665.4	795.2
122.5°	245.0	249.6	259.5	276.3	300.8	333.2	377.4	442.4	535.1	648.5	767.9
125°	264.2	269.7	279.8	297.3	322.1	354.3	394.8	450.0	528.3	626.8	731.7
127.5°	280.4	287.2	297.5	316.8	341.7	372.7	409.2	458.9	525.0	607.7	700.1
130°	289.9	298.2	309.3	328.6	353.4	383.8	418.7	464.8	522.8	597.3	680.2
132.5°	298.0	307.0	320.3	339.6	363.8	393.4	427.6	469.2	522.0	587.8	661.8
135°	311.1	321.2	335.0	354.3	379.2	407.7	439.0	475.9	520.9	575.3	636.9
137.5°	323.4	333.4	348.1	367.3	390.2	417.6	447.5	480.3	518.9	564.4	614.3
140°	332.2	341.4	356.2	374.6	397.6	424.3	451.9	483.2	518.2	557.8	601.0
142.5°	340.4	350.3	363.5	382.0	403.5	429.4	456.3	485.4	516.7	551.8	588.5
145°	353.4	361.7	375.5	391.2	412.3	436.3	461.1	486.9	514.5	544.0	573.4
147.5°	366.7	374.8	386.7	401.9	419.9	441.8	464.1	486.9	511.0	536.2	561.1
150°	375.5	382.9	394.8	407.7	424.3	445.4	464.8	486.9	508.0	531.1	552.2
152.5°	384.4	391.7	402.2	413.6	429.4	447.7	466.3	484.7	504.4	525.2	544.2
155°	398.5	404.1	413.3	423.3	436.3	451.9	466.7	482.3	498.0	516.3	532.0
157.5°	410.7	415.1	423.2	431.8	441.8	454.3	467.5	479.2	492.3	506.4	519.1
160°	418.7	422.5	429.8	436.3	445.4	456.5	467.5	477.7	487.8	499.8	511.7
162.5°	425.4	428.3	434.3	440.0	447.7	457.2	466.8	474.8	483.4	493.1	502.9
165°	434.4	436.3	440.8	444.6	451.0	458.4	464.8	470.3	476.7	484.1	491.5
167.5°	441.8	442.7	446.2	448.8	452.8	458.2	463.3	465.9	470.2	475.5	481.6
170°	445.4	446.4	449.2	451.0	452.8	457.4	461.1	463.0	465.7	470.3	474.9
172.5°	449.2	449.3	451.4	452.5	453.6	457.4	460.4	460.7	462.0	465.2	469.1
175°	452.8	451.9	453.8	453.8	454.7	456.5	458.4	457.4	457.4	459.3	461.1
177.5°	454.7	453.9	454.7	454.7	454.7	455.4	456.9	455.4	454.7	455.4	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



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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°	12.3	12.3	12.4	12.4	12.4	12.4	12.6
90°	23.9	24.9	26.7	25.7	26.7	27.6	26.7
92.5°	61.5	54.3	49.5	47.8	45.1	46.0	44.4
95°	224.6	175.8	142.7	125.2	116.9	110.4	106.8
97.5°	661.6	542.9	432.8	364.9	323.4	298.6	290.7
100°	1010.6	902.9	772.2	679.2	612.0	576.2	577.1
102.5°	1168.9	1106.1	1023.3	950.9	897.8	867.8	846.6
105°	1288.6	1306.1	1282.1	1239.8	1204.8	1175.4	1170.8
107.5°	1273.4	1354.1	1386.9	1387.6	1375.8	1365.9	1357.4
110°	1224.2	1340.1	1404.5	1430.3	1437.7	1435.8	1434.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1159.4	1289.3	1372.1	1419.3	1442.1	1449.1	1449.5
115°	1055.7	1191.0	1291.3	1360.3	1400.8	1419.3	1423.9
117.5°	968.0	1089.6	1191.4	1263.4	1309.7	1336.3	1342.5
120°	919.5	1029.9	1122.9	1195.6	1247.1	1269.2	1274.8
122.5°	880.4	982.8	1069.1	1133.8	1180.1	1204.4	1211.4
125°	832.0	920.4	994.0	1053.0	1093.4	1116.4	1122.9
127.5°	789.5	869.2	936.2	988.7	1023.3	1044.1	1050.0
130°	763.0	837.6	900.2	949.0	982.1	1001.4	1008.8
132.5°	738.0	807.4	867.0	912.8	945.9	963.1	968.3
135°	702.3	762.1	814.5	859.7	887.2	903.8	910.3
137.5°	667.8	719.4	764.9	802.8	830.8	844.7	849.0
140°	647.9	692.1	731.7	766.7	792.5	807.2	806.3
142.5°	628.8	667.1	701.6	731.3	754.2	767.4	766.5
145°	603.8	633.3	659.9	682.9	702.3	709.6	711.5
147.5°	585.2	609.0	627.9	645.4	658.5	665.4	666.1
150°	573.4	592.7	610.2	624.0	634.1	639.7	639.7
152.5°	562.4	579.5	594.1	604.9	614.3	617.6	617.6
155°	546.7	560.5	571.6	579.9	587.2	589.1	589.9
157.5°	531.5	542.1	550.7	557.9	563.5	564.9	564.7
160°	521.9	531.1	537.5	544.0	549.5	549.5	548.6
162.5°	511.6	520.0	525.7	530.0	534.7	534.7	533.9
165°	497.0	503.4	508.0	511.7	515.4	514.5	514.5
167.5°	485.8	489.5	492.8	494.4	497.0	496.1	496.1
170°	477.7	481.3	483.2	484.1	486.0	485.1	485.1
172.5°	471.0	474.0	475.1	475.3	477.1	475.5	474.8
175°	462.0	463.9	463.9	463.9	464.8	463.9	463.0
177.5°	456.9	457.6	457.6	456.9	457.6	456.1	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7

(END OF REPORT)