

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: P332290-930

Luminaire Tested: **S123RDIP-S560D1025U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332290-930  
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: S123RDIP-S560D1025U930-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4844.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

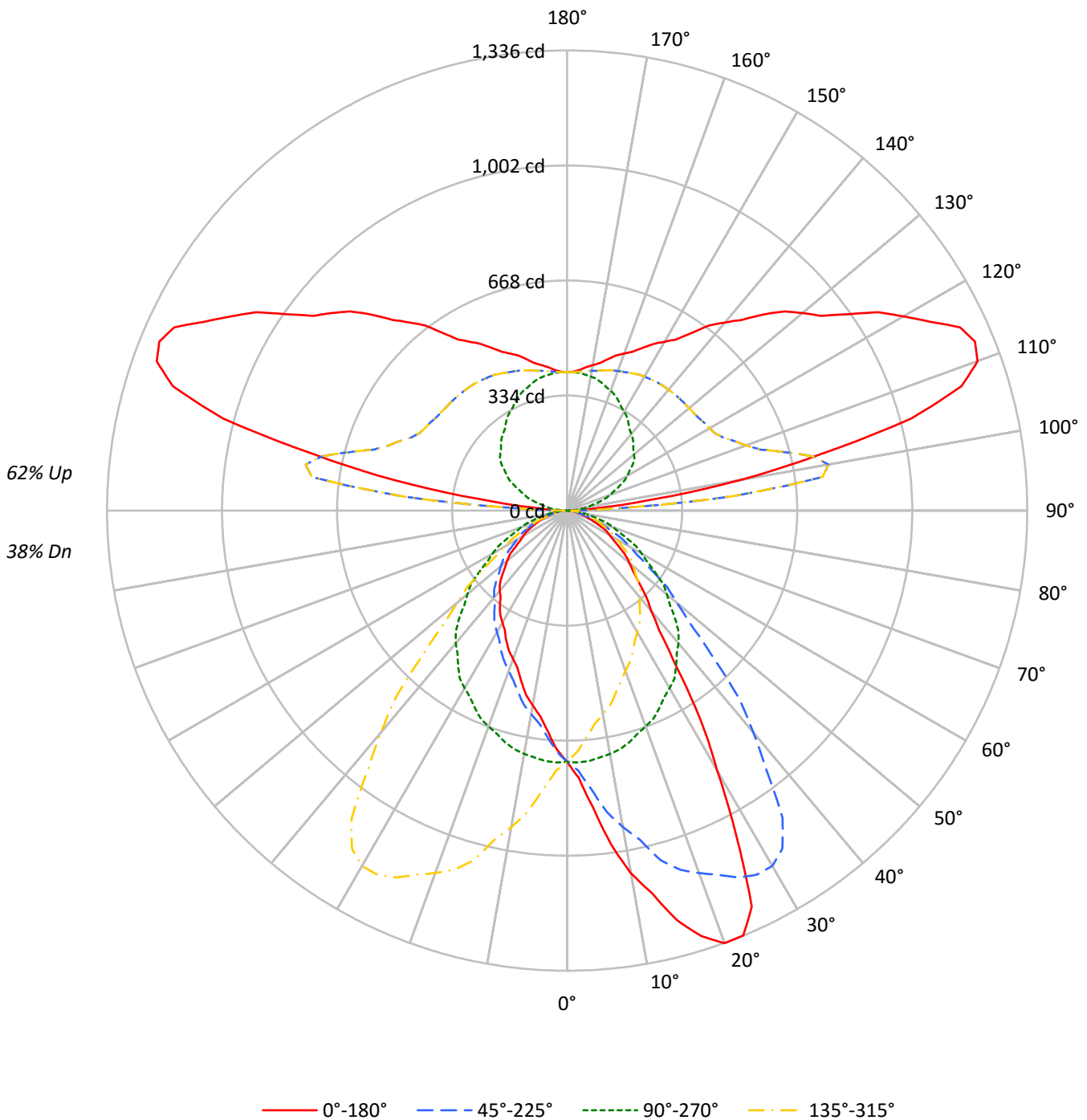
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	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	76	76	76	60	60	60	45	45	45	38				
1	95	91	88	84	86	83	80	77	68	65	63	53	52	51	40	39	39	32				
2	87	80	74	70	79	73	68	64	60	56	53	47	45	43	36	34	33	28				
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24				
4	73	63	55	50	66	58	51	46	47	43	39	38	35	32	29	27	25	21				
5	67	56	48	43	61	51	45	40	42	37	34	34	31	28	26	24	22	19				
6	62	50	43	37	56	46	40	35	38	33	29	31	27	24	24	22	20	17				
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	19	18	15				
8	53	41	34	29	48	38	32	27	32	27	23	26	22	19	20	18	16	13				
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	14	12				
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13	11				

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

	0°	90°	180°	270°
0°	7851	7851	7851	7851
5°	9360	7886	6944	7886
10°	11687	7840	6274	7840
15°	13718	7759	5721	7759
20°	15309	7640	5251	7640
25°	15064	7514	4962	7514
30°	10828	7398	4666	7398
35°	7230	7247	4473	7247
40°	5327	7065	4274	7065
45°	4468	6745	4078	6745
50°	3944	6328	3806	6328
55°	3459	5849	3434	5849
60°	3078	5393	3147	5393
65°	2705	4898	2929	4898
70°	2121	4463	2675	4463
75°	1871	3897	2441	3897
80°	1630	3310	2399	3310
85°	1309	2655	2544	2655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.5
10°-20°	224.1	4.6
20°-30°	352.1	7.3
30°-40°	367.3	7.6
40°-50°	314.4	6.5
50°-60°	239.6	4.9
60°-70°	153.6	3.2
70°-80°	73.9	1.5
80°-90°	22.7	0.5
90°-100°	223.7	4.6
100°-110°	633.5	13.1
110°-120°	623.2	12.9
120°-130°	497.1	10.3
130°-140°	391.9	8.1
140°-150°	292.5	6.0
150°-160°	203.9	4.2
160°-170°	119.8	2.5
170°-180°	39.0	0.8
0°-30°	647.9	13.4
0°-40°	1015.3	21.0
0°-60°	1569.3	32.4
0°-90°	1819.4	37.6
90°-120°	1480.5	30.6
90°-150°	2662.0	55.0
90°-180°	3025.0	62.4
0°-180°	4844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
90°	24	2	24	2	24	13
95°	94	28	94	28	94	170
105°	1035	94	1035	94	1035	1021
115°	1259	167	1259	167	1259	1223
125°	993	232	993	232	993	900
135°	805	272	805	272	805	624
145°	629	310	629	310	629	400
155°	522	352	522	352	522	243
165°	455	385	455	385	455	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	7.3	7.9	7.3	7.3	7.5	7.4	7.3	7.1	7.4	7.3	7.1
90°	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4	19.6	20.4	17.9
92.5°	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5	94.4	125.1	137.7
95°	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9	391.4	482.6	429.7
97.5°	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3	800.1	747.9	547.6
100°	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5	931.0	770.7	520.8
102.5°	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7	937.5	728.4	481.8
105°	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9	887.9	654.3	433.7
107.5°	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8	801.0	588.9	403.2
110°	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6	746.2	551.8	391.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0	698.7	527.0	384.9
115°	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8	641.3	500.5	382.5
117.5°	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8	606.6	484.9	383.9
120°	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1	588.4	477.7	386.5
122.5°	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1	573.4	473.1	391.1
125°	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0	554.2	467.2	397.9
127.5°	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0	537.3	464.2	405.8
130°	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4	528.2	462.3	411.0
132.5°	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1	519.7	461.6	414.9
135°	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1	508.7	460.6	420.8
137.5°	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2	499.0	458.9	424.6
140°	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4	493.2	458.2	427.2
142.5°	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3	488.0	456.9	429.2
145°	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0	480.9	454.9	430.5
147.5°	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1	474.1	451.8	430.5
150°	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3	469.5	449.2	430.5
152.5°	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1	464.4	446.0	428.5
155°	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3	456.6	440.3	426.4
157.5°	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0	447.8	435.2	423.7
160°	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5	441.9	431.3	422.4
162.5°	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7	436.0	427.4	419.8
165°	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6	428.0	421.6	415.9
167.5°	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7	420.4	415.7	412.0
170°	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0	415.9	411.8	409.4
172.5°	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7	411.3	408.5	407.4
175°	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7	406.1	404.5	404.5
177.5°	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3	402.7	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	7.1	6.4	6.4	6.0	6.4	6.2	7.4	8.3	8.9	8.2	8.7
90°	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6	3.3	4.9	7.3
92.5°	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1	15.0	21.9	28.1
95°	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6	30.1	39.1	52.9
97.5°	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2	48.0	55.0	67.0
100°	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3	61.1	66.8	78.1
102.5°	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9	75.3	80.4	91.2
105°	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4	96.9	101.7	111.5
107.5°	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2	118.6	123.4	133.0
110°	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8	134.3	138.4	147.3





TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2	148.6	152.7	161.6
115°	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8	170.1	175.0	183.1
117.5°	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5	191.3	195.3	202.8
120°	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8	204.2	208.3	216.5
122.5°	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2	216.6	220.7	229.5
125°	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0	233.6	238.5	247.4
127.5°	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5	247.9	253.9	263.0
130°	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9	256.3	263.7	273.5
132.5°	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4	263.5	271.5	283.2
135°	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8	275.1	284.1	296.2
137.5°	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6	286.0	294.7	307.8
140°	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8	293.8	301.9	315.0
142.5°	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5	300.9	309.7	321.5
145°	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1	312.5	319.8	332.1
147.5°	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8	324.2	331.4	341.9
150°	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3	332.1	338.5	349.1
152.5°	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7	339.8	346.3	355.6
155°	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4	352.4	357.3	365.4
157.5°	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5	363.1	367.0	374.2
160°	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3	370.3	373.6	380.0
162.5°	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2	376.2	378.8	383.9
165°	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9	384.1	385.7	389.8
167.5°	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6	390.6	391.4	394.5
170°	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5	393.9	394.7	397.1
172.5°	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1	397.1	397.3	399.1
175°	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2	400.4	399.6	401.2
177.5°	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7	402.0	401.4	402.0
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	717.0	713.7	711.5	706.5	703.3	699.8	696.3	698.5	698.2	698.0	698.0
5°	692.9	685.7	679.2	670.7	665.4	658.9	653.9	653.3	654.5	650.1	647.7
7.5°	669.1	659.3	650.0	640.7	630.8	622.9	618.0	615.7	612.5	609.8	607.0
10°	652.3	640.8	631.7	620.2	609.6	600.2	594.3	590.2	588.0	585.8	581.8
12.5°	635.1	623.8	612.2	599.2	589.1	578.2	573.8	569.2	565.0	562.6	557.0
15°	609.8	595.2	583.0	569.2	558.1	547.4	541.2	532.1	530.8	527.7	522.1
17.5°	584.6	568.7	551.9	541.7	529.0	518.0	508.4	505.4	496.4	493.1	488.2
20°	564.6	549.9	537.1	523.7	505.2	495.0	487.5	483.4	476.2	471.8	468.7
22.5°	547.4	532.4	517.6	502.0	486.7	475.2	469.7	463.4	459.5	453.4	450.0
25°	522.8	506.5	488.7	471.8	460.9	452.2	443.4	437.8	432.2	429.3	423.1
27.5°	494.2	477.2	460.6	447.8	434.3	425.7	417.8	412.8	406.0	401.3	397.9
30°	478.4	458.4	444.1	432.5	415.3	407.2	401.3	395.0	390.0	385.1	381.6
32.5°	460.2	441.9	428.3	414.0	400.8	392.0	384.3	378.8	374.5	369.8	366.4
35°	431.5	416.3	402.2	387.8	378.1	369.1	360.0	355.4	351.3	346.9	343.8
37.5°	405.7	391.4	378.1	364.4	352.5	345.0	337.8	334.2	328.7	325.8	322.6
40°	389.7	375.7	361.3	348.2	335.7	330.1	323.5	318.2	313.2	311.0	307.6
42.5°	372.3	358.2	346.1	331.9	321.7	314.1	308.0	302.2	298.5	295.3	293.3
45°	346.3	333.8	322.0	307.9	298.2	291.6	284.8	279.5	276.1	273.9	270.4
47.5°	321.1	308.7	296.6	284.4	275.0	267.5	260.7	256.9	252.4	249.7	247.4
50°	302.9	291.6	278.8	267.6	258.3	250.8	245.2	240.4	236.4	232.9	231.4
52.5°	286.2	274.2	263.1	252.7	242.8	234.2	229.2	224.2	221.2	217.2	215.4
55°	258.5	247.0	237.7	227.3	217.7	210.5	204.2	199.8	196.7	192.3	189.9
57.5°	232.6	222.3	211.1	202.2	192.2	186.1	180.9	175.0	171.2	167.8	165.3
60°	215.2	203.3	193.6	185.2	176.4	168.6	164.0	159.2	155.2	151.7	149.6
62.5°	196.9	186.5	177.4	168.2	160.2	153.4	148.0	144.0	140.5	138.3	136.1
65°	168.9	160.9	151.5	144.0	136.5	131.5	127.1	123.7	121.2	119.6	117.7
67.5°	143.2	135.3	127.2	119.8	114.8	111.0	108.1	105.2	104.0	101.9	100.7
70°	126.5	118.4	111.2	105.6	100.5	97.8	95.9	93.7	92.5	89.9	88.7
72.5°	108.3	102.4	97.2	92.5	88.5	86.0	83.6	81.0	78.9	76.2	74.9
75°	85.3	80.0	75.9	72.7	70.3	66.9	63.4	60.6	59.7	58.7	58.4
77.5°	63.1	59.8	56.8	54.2	51.1	48.6	47.9	47.2	47.0	46.6	46.6
80°	49.7	46.6	44.4	41.3	39.4	39.4	39.4	38.7	39.1	39.1	39.1
82.5°	36.9	34.0	32.9	31.7	31.4	31.6	31.6	31.7	31.6	32.0	31.8
85°	19.1	19.3	20.0	19.6	20.0	20.0	20.6	20.3	20.6	20.0	20.6
87.5°	8.8	9.9	10.6	11.3	12.1	12.3	12.4	12.6	13.0	13.1	13.5
90°	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4	21.2	22.0	23.6
92.5°	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5	54.4	48.0	43.8
95°	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9	198.6	155.5	126.1
97.5°	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3	585.0	480.0	382.6
100°	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5	893.6	798.3	682.8
102.5°	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7	1033.6	978.0	904.8
105°	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9	1139.4	1154.8	1133.7
107.5°	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8	1126.0	1197.3	1226.3
110°	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6	1082.4	1184.9	1241.9



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0	1025.1	1140.0	1213.2
115°	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8	933.4	1053.0	1141.7
117.5°	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8	856.0	963.4	1053.4
120°	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1	813.0	910.7	992.9
122.5°	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1	778.5	869.0	945.3
125°	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0	735.7	813.8	878.9
127.5°	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0	698.1	768.6	827.8
130°	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4	674.7	740.5	795.9
132.5°	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1	652.5	713.9	766.6
135°	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1	620.9	673.8	720.2
137.5°	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2	590.5	636.1	676.3
140°	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4	572.9	612.0	647.0
142.5°	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3	556.0	589.9	620.3
145°	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0	533.9	559.9	583.5
147.5°	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1	517.4	538.4	555.2
150°	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3	507.0	524.1	539.6
152.5°	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1	497.3	512.4	525.2
155°	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3	483.4	495.6	505.4
157.5°	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0	469.9	479.3	487.0
160°	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5	461.5	469.5	475.2
162.5°	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7	452.3	459.8	464.9
165°	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6	439.4	445.2	449.2
167.5°	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7	429.5	432.8	435.7
170°	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0	422.4	425.6	427.2
172.5°	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7	416.5	419.1	420.1
175°	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7	408.5	410.2	410.2
177.5°	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3	404.0	404.6	404.6
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	13.8	13.5	13.6	13.7	13.6	13.5	13.8	13.5	13.1	13.0	12.6
90°	22.7	23.6	24.4	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4
92.5°	42.3	39.9	40.7	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5
95°	110.7	103.4	97.7	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9
97.5°	322.6	286.0	264.0	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3
100°	600.6	541.2	509.5	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5
102.5°	840.8	793.8	767.3	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7
105°	1096.2	1065.3	1039.3	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9
107.5°	1226.9	1216.5	1207.7	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8
110°	1264.7	1271.2	1269.6	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1254.9	1275.0	1281.2	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0
115°	1202.8	1238.6	1254.9	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8
117.5°	1117.0	1158.1	1181.5	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8
120°	1057.1	1102.7	1122.3	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1
122.5°	1002.5	1043.5	1064.9	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1
125°	931.0	966.8	987.2	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0
127.5°	874.2	904.8	923.2	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0
130°	839.0	868.4	885.4	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4
132.5°	807.1	836.4	851.6	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1
135°	760.1	784.5	799.2	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1
137.5°	709.8	734.6	746.9	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2
140°	677.9	700.7	713.7	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4
142.5°	646.7	666.8	678.6	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3
145°	603.8	620.9	627.5	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0
147.5°	570.6	582.2	588.4	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1
150°	551.8	560.7	565.6	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3
152.5°	534.8	543.2	546.1	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1
155°	512.7	519.2	520.8	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3
157.5°	493.3	498.2	499.5	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0
160°	480.9	485.8	485.8	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5
162.5°	468.6	472.8	472.8	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7
165°	452.5	455.8	454.9	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6
167.5°	437.2	439.4	438.6	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7
170°	428.0	429.7	428.8	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0
172.5°	420.3	421.9	420.4	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7
175°	410.2	411.0	410.2	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7
177.5°	404.0	404.6	403.3	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	12.4	12.3	12.1	11.3	10.6	9.9	8.8	8.7	8.2	8.9	8.3
90°	19.6	20.4	17.9	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6
92.5°	94.4	125.1	137.7	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1
95°	391.4	482.6	429.7	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6
97.5°	800.1	747.9	547.6	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2
100°	931.0	770.7	520.8	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3
102.5°	937.5	728.4	481.8	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9
105°	887.9	654.3	433.7	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4
107.5°	801.0	588.9	403.2	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2
110°	746.2	551.8	391.4	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	698.7	527.0	384.9	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2
115°	641.3	500.5	382.5	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8
117.5°	606.6	484.9	383.9	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5
120°	588.4	477.7	386.5	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8
122.5°	573.4	473.1	391.1	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2
125°	554.2	467.2	397.9	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0
127.5°	537.3	464.2	405.8	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5
130°	528.2	462.3	411.0	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9
132.5°	519.7	461.6	414.9	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4
135°	508.7	460.6	420.8	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8
137.5°	499.0	458.9	424.6	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6
140°	493.2	458.2	427.2	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8
142.5°	488.0	456.9	429.2	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5
145°	480.9	454.9	430.5	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1
147.5°	474.1	451.8	430.5	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8
150°	469.5	449.2	430.5	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3
152.5°	464.4	446.0	428.5	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7
155°	456.6	440.3	426.4	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4
157.5°	447.8	435.2	423.7	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5
160°	441.9	431.3	422.4	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3
162.5°	436.0	427.4	419.8	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2
165°	428.0	421.6	415.9	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9
167.5°	420.4	415.7	412.0	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6
170°	415.9	411.8	409.4	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5
172.5°	411.3	408.5	407.4	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1
175°	406.1	404.5	404.5	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2
177.5°	402.7	402.0	402.7	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	733.4	736.2	739.7	744.9	748.9	752.4	753.2	754.2	756.7	760.9	764.2
5°	738.3	745.4	756.9	768.2	780.4	790.4	799.7	806.3	812.5	825.7	836.3
7.5°	736.7	752.7	770.8	791.0	811.4	831.2	849.5	866.0	882.4	901.5	923.2
10°	735.7	754.5	778.8	804.7	833.2	861.0	887.8	908.7	933.1	955.0	982.8
12.5°	731.0	758.0	787.1	820.2	855.2	887.2	922.5	951.5	979.3	1010.9	1043.2
15°	724.8	757.6	794.4	838.5	891.5	930.3	966.5	1016.8	1051.1	1085.5	1131.7
17.5°	713.5	753.5	799.6	856.7	901.1	953.1	1007.5	1047.3	1093.6	1142.0	1183.8
20°	704.5	751.1	802.6	858.8	915.3	971.8	1024.6	1072.0	1119.8	1175.7	1210.1
22.5°	695.5	741.5	795.1	854.8	915.5	975.0	1034.8	1090.5	1144.3	1200.7	1244.6
25°	676.4	731.0	789.1	850.0	910.0	975.5	1046.8	1108.9	1175.4	1233.5	1275.0
27.5°	657.0	707.1	764.9	826.7	893.3	970.9	1054.6	1125.3	1191.9	1233.5	1246.5
30°	639.5	692.6	745.7	808.5	880.6	967.1	1056.1	1137.0	1191.6	1209.7	1196.3
32.5°	621.8	669.9	722.5	786.8	863.4	957.9	1058.1	1130.0	1162.9	1149.1	1094.4
35°	590.5	633.9	684.9	749.2	837.2	952.8	1049.9	1098.6	1090.5	1012.4	909.3
37.5°	557.0	592.4	639.5	706.8	810.1	932.5	1014.4	1021.6	951.3	831.4	712.4
40°	530.5	562.4	610.8	681.1	789.1	912.5	978.7	949.7	840.7	707.3	608.0
42.5°	504.8	531.7	578.3	654.1	769.2	885.3	925.4	862.2	736.5	610.3	520.1
45°	461.2	486.5	533.4	611.1	728.2	833.2	827.9	718.0	592.1	490.6	415.6
47.5°	419.9	442.0	486.0	565.3	680.2	755.0	705.4	588.5	481.7	400.3	346.8
50°	390.7	412.5	456.2	534.6	641.7	696.3	625.5	512.7	415.0	347.6	305.1
52.5°	362.6	384.0	424.0	500.3	595.3	627.9	551.8	447.3	365.8	307.6	271.1
55°	323.5	339.7	375.7	448.7	519.6	527.1	450.0	362.6	295.4	254.8	229.8
57.5°	283.6	297.6	333.0	391.3	441.0	437.1	363.9	288.4	243.1	213.0	194.9
60°	257.6	271.3	302.6	352.5	390.0	376.9	309.8	248.9	210.2	188.0	173.7
62.5°	233.4	244.1	273.4	309.8	336.8	322.0	264.8	214.4	183.7	165.0	153.6
65°	198.3	207.0	230.5	249.5	264.5	250.1	202.7	167.7	145.5	132.4	124.6
67.5°	164.9	170.5	185.3	192.2	202.8	187.0	152.4	129.0	116.3	105.3	99.9
70°	144.0	148.1	155.8	161.4	164.3	148.1	122.4	105.3	94.7	86.8	83.4
72.5°	122.9	126.5	128.1	132.7	131.3	116.0	98.4	84.8	77.1	71.8	67.4
75°	94.0	95.6	94.0	92.1	88.1	77.5	65.3	58.4	52.7	50.3	48.8
77.5°	68.5	68.0	65.9	62.9	56.0	49.3	42.8	40.4	38.1	36.7	36.2
80°	52.7	51.5	49.7	45.0	39.1	34.3	32.8	31.2	30.3	28.7	28.5
82.5°	39.3	38.6	35.4	31.5	27.3	25.1	23.8	23.2	22.3	21.5	21.4
85°	21.0	20.0	16.6	14.3	13.8	13.1	12.8	12.8	11.6	11.3	11.3
87.5°	7.4	6.2	6.4	6.0	6.4	6.4	7.1	7.1	7.3	7.4	7.1
90°	3.3	4.9	7.3	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4
92.5°	15.0	21.9	28.1	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5
95°	30.1	39.1	52.9	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9
97.5°	48.0	55.0	67.0	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3
100°	61.1	66.8	78.1	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5
102.5°	75.3	80.4	91.2	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7
105°	96.9	101.7	111.5	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9
107.5°	118.6	123.4	133.0	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8
110°	134.3	138.4	147.3	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6





TEST NUMBER: P332290-930

CATALOG NUMBER: S123RDIP-S560D1025U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	152.7	161.6	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0
115°	170.1	175.0	183.1	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8
117.5°	191.3	195.3	202.8	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8
120°	204.2	208.3	216.5	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1
122.5°	216.6	220.7	229.5	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1
125°	233.6	238.5	247.4	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0
127.5°	247.9	253.9	263.0	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0
130°	256.3	263.7	273.5	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4
132.5°	263.5	271.5	283.2	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1
135°	275.1	284.1	296.2	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1
137.5°	286.0	294.7	307.8	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2
140°	293.8	301.9	315.0	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4
142.5°	300.9	309.7	321.5	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3
145°	312.5	319.8	332.1	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0
147.5°	324.2	331.4	341.9	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1
150°	332.1	338.5	349.1	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3
152.5°	339.8	346.3	355.6	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1
155°	352.4	357.3	365.4	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3
157.5°	363.1	367.0	374.2	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0
160°	370.3	373.6	380.0	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5
162.5°	376.2	378.8	383.9	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7
165°	384.1	385.7	389.8	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6
167.5°	390.6	391.4	394.5	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7
170°	393.9	394.7	397.1	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0
172.5°	397.1	397.3	399.1	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7
175°	400.4	399.6	401.2	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7
177.5°	402.0	401.4	402.0	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	7.3	7.4	7.5	7.3	7.3	7.9	7.3
90°	21.2	22.0	23.6	22.7	23.6	24.4	23.6
92.5°	54.4	48.0	43.8	42.3	39.9	40.7	39.2
95°	198.6	155.5	126.1	110.7	103.4	97.7	94.4
97.5°	585.0	480.0	382.6	322.6	286.0	264.0	257.0
100°	893.6	798.3	682.8	600.6	541.2	509.5	510.3
102.5°	1033.6	978.0	904.8	840.8	793.8	767.3	748.5
105°	1139.4	1154.8	1133.7	1096.2	1065.3	1039.3	1035.2
107.5°	1126.0	1197.3	1226.3	1226.9	1216.5	1207.7	1200.2
110°	1082.4	1184.9	1241.9	1264.7	1271.2	1269.6	1268.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1025.1	1140.0	1213.2	1254.9	1275.0	1281.2	1281.6
115°	933.4	1053.0	1141.7	1202.8	1238.6	1254.9	1259.0
117.5°	856.0	963.4	1053.4	1117.0	1158.1	1181.5	1187.0
120°	813.0	910.7	992.9	1057.1	1102.7	1122.3	1127.2
122.5°	778.5	869.0	945.3	1002.5	1043.5	1064.9	1071.1
125°	735.7	813.8	878.9	931.0	966.8	987.2	992.9
127.5°	698.1	768.6	827.8	874.2	904.8	923.2	928.4
130°	674.7	740.5	795.9	839.0	868.4	885.4	891.9
132.5°	652.5	713.9	766.6	807.1	836.4	851.6	856.1
135°	620.9	673.8	720.2	760.1	784.5	799.2	804.9
137.5°	590.5	636.1	676.3	709.8	734.6	746.9	750.6
140°	572.9	612.0	647.0	677.9	700.7	713.7	712.9
142.5°	556.0	589.9	620.3	646.7	666.8	678.6	677.8
145°	533.9	559.9	583.5	603.8	620.9	627.5	629.1
147.5°	517.4	538.4	555.2	570.6	582.2	588.4	589.1
150°	507.0	524.1	539.6	551.8	560.7	565.6	565.6
152.5°	497.3	512.4	525.2	534.8	543.2	546.1	546.1
155°	483.4	495.6	505.4	512.7	519.2	520.8	521.6
157.5°	469.9	479.3	487.0	493.3	498.2	499.5	499.4
160°	461.5	469.5	475.2	480.9	485.8	485.8	485.0
162.5°	452.3	459.8	464.9	468.6	472.8	472.8	472.0
165°	439.4	445.2	449.2	452.5	455.8	454.9	454.9
167.5°	429.5	432.8	435.7	437.2	439.4	438.6	438.6
170°	422.4	425.6	427.2	428.0	429.7	428.8	428.8
172.5°	416.5	419.1	420.1	420.3	421.9	420.4	419.8
175°	408.5	410.2	410.2	410.2	411.0	410.2	409.4
177.5°	404.0	404.6	404.6	404.0	404.6	403.3	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0

(END OF REPORT)