

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: P332290-935

Luminaire Tested: **S123RDIP-S560D1025U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332290-935  
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-S560D1025U935-4F0-1E-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: 5115.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 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

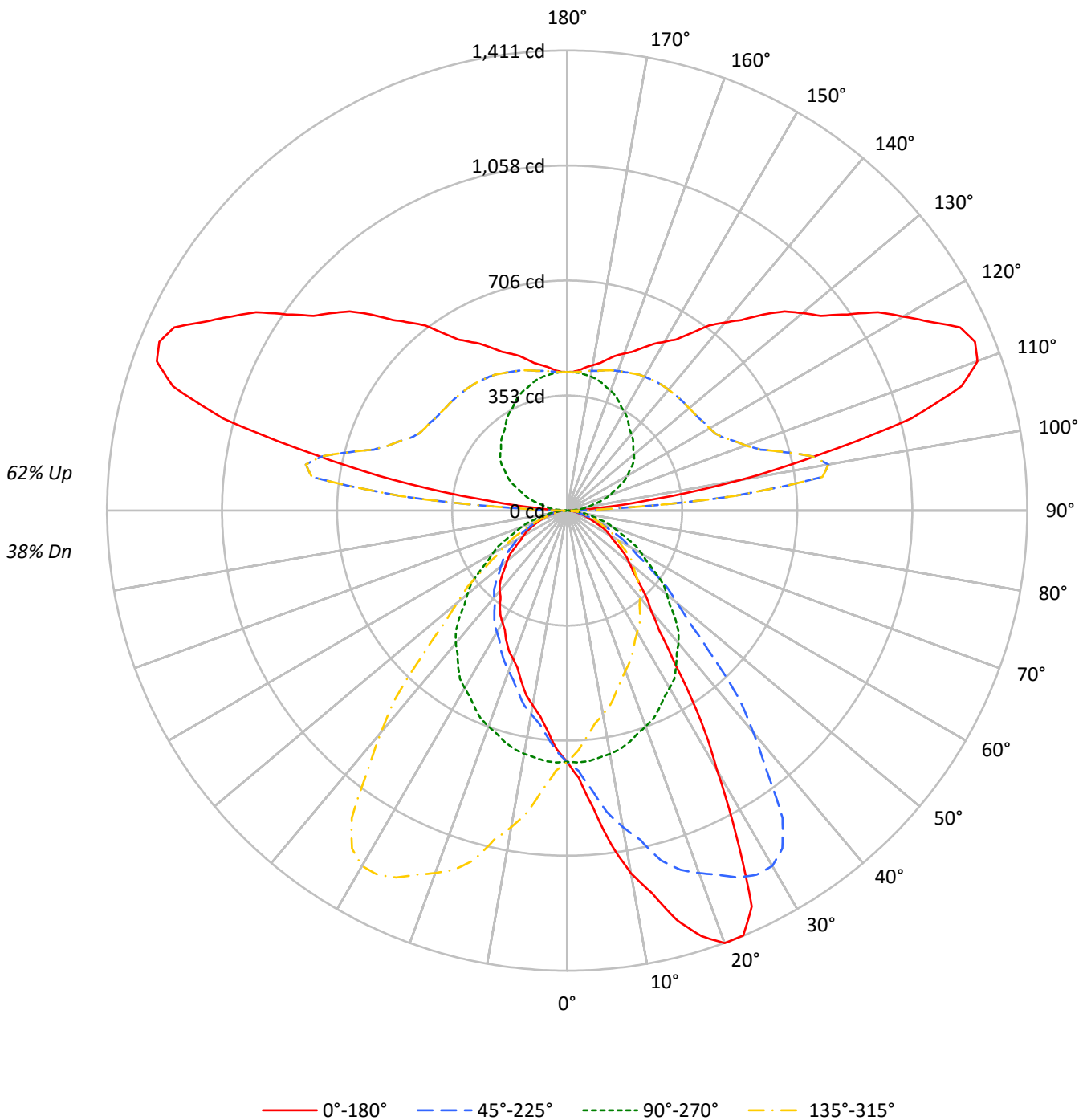
Input Watts (W): 44.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	8291	8291	8291	8291
5°	9884	8327	7333	8327
10°	12342	8279	6625	8279
15°	14487	8195	6042	8195
20°	16167	8069	5545	8069
25°	15909	7935	5241	7935
30°	11436	7812	4927	7812
35°	7636	7653	4724	7653
40°	5626	7461	4513	7461
45°	4719	7124	4306	7124
50°	4165	6683	4019	6683
55°	3652	6178	3626	6178
60°	3251	5694	3324	5694
65°	2855	5173	3092	5173
70°	2241	4711	2823	4711
75°	1975	4113	2578	4113
80°	1717	3496	2535	3496
85°	1383	2803	2692	2803



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CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	1.5
10°-20°	236.7	4.6
20°-30°	371.8	7.3
30°-40°	387.9	7.6
40°-50°	332.0	6.5
50°-60°	253.0	4.9
60°-70°	162.2	3.2
70°-80°	78.0	1.5
80°-90°	23.9	0.5
90°-100°	236.3	4.6
100°-110°	669.0	13.1
110°-120°	658.1	12.9
120°-130°	525.0	10.3
130°-140°	413.9	8.1
140°-150°	308.9	6.0
150°-160°	215.3	4.2
160°-170°	126.5	2.5
170°-180°	41.2	0.8
0°-30°	684.3	13.4
0°-40°	1072.2	21.0
0°-60°	1657.2	32.4
0°-90°	1921.4	37.6
90°-120°	1563.5	30.6
90°-150°	2811.2	55.0
90°-180°	3194.0	62.4
0°-180°	5115.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	915	771	679	771	915	94
15°	1300	735	542	735	1300	369
25°	1340	668	441	668	1340	576
35°	581	582	360	582	581	381
45°	310	468	283	468	310	244
55°	195	329	193	329	195	176
65°	112	203	121	203	112	110
75°	48	99	62	99	48	51
85°	11	23	22	23	11	14
90°	25	2	25	2	25	14
95°	100	29	100	29	100	180
105°	1093	100	1093	100	1093	1078
115°	1330	176	1330	176	1330	1292
125°	1048	245	1048	245	1048	950
135°	850	287	850	287	850	659
145°	664	327	664	327	664	423
155°	551	372	551	372	551	257
165°	480	406	480	406	480	137
175°	432	424	432	424	432	42
180°	425	425	425	425	425	



TEST NUMBER: P332290-935

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	820.4	821.6	818.1	817.6	813.6	812.6	812.6	807.0	803.6	799.1	796.5
5°	914.8	920.1	917.5	911.5	901.6	899.3	893.0	883.1	871.9	858.1	851.5
7.5°	1032.6	1039.8	1037.0	1027.9	1017.5	1009.1	991.4	975.0	952.0	931.9	914.6
10°	1129.2	1121.5	1115.7	1106.7	1097.2	1081.7	1063.2	1037.8	1008.5	985.4	959.7
12.5°	1201.4	1200.2	1192.7	1183.5	1170.0	1155.3	1132.6	1101.6	1067.6	1034.1	1004.8
15°	1300.0	1302.0	1297.0	1287.5	1268.3	1242.3	1208.0	1195.2	1146.3	1110.0	1073.8
17.5°	1368.2	1367.8	1367.1	1353.8	1334.4	1315.8	1284.0	1250.2	1206.0	1154.9	1106.0
20°	1411.4	1408.2	1408.9	1394.0	1379.5	1358.1	1327.1	1277.9	1241.6	1182.6	1132.1
22.5°	1410.4	1409.7	1412.2	1407.1	1396.6	1380.2	1355.8	1314.3	1268.0	1208.4	1151.7
25°	1339.5	1337.0	1352.5	1356.7	1373.6	1376.5	1369.2	1346.5	1302.6	1241.3	1171.0
27.5°	1121.1	1119.6	1148.4	1184.4	1230.1	1265.6	1299.9	1316.4	1302.6	1258.7	1188.4
30°	920.1	951.1	965.6	1017.7	1075.7	1145.0	1205.7	1263.3	1277.6	1258.4	1200.8
32.5°	763.9	790.9	803.1	847.8	901.9	983.0	1074.0	1155.7	1213.5	1228.1	1193.3
35°	581.1	581.4	609.1	628.9	679.0	762.4	850.8	960.3	1069.1	1151.6	1160.2
37.5°	463.6	465.3	482.1	501.8	539.4	583.5	661.3	752.3	878.0	1004.6	1078.8
40°	400.4	403.3	415.9	435.3	462.4	495.7	556.4	642.0	746.9	887.8	1002.9
42.5°	359.7	364.5	371.0	386.0	402.7	433.9	483.0	549.2	644.5	777.7	910.5
45°	310.0	312.6	317.5	324.5	339.7	361.4	394.4	438.9	518.1	625.3	758.2
47.5°	273.5	272.1	277.2	282.9	293.0	307.8	329.9	366.3	422.8	508.7	621.5
50°	248.7	248.3	251.9	256.2	265.8	276.7	294.8	322.2	367.0	438.2	541.5
52.5°	225.4	226.7	229.3	234.6	241.5	250.3	266.6	286.3	324.9	386.3	472.3
55°	194.6	195.5	199.1	202.2	207.1	216.0	226.3	242.7	269.1	311.9	382.9
57.5°	168.4	168.0	171.5	172.2	177.8	185.0	193.0	205.8	224.9	256.8	304.5
60°	151.0	150.1	153.0	155.3	158.3	164.2	170.8	183.4	198.5	222.0	262.9
62.5°	135.2	134.7	136.9	139.2	141.6	147.1	152.7	162.2	174.3	194.0	226.4
65°	112.1	113.1	114.1	115.1	116.4	119.7	125.0	131.6	139.8	153.7	177.1
67.5°	88.1	89.1	89.5	91.4	94.3	96.3	99.6	105.5	111.2	122.9	136.2
70°	71.2	70.9	71.2	72.2	75.9	79.5	83.8	88.1	91.7	100.0	111.2
72.5°	61.2	60.6	61.5	61.6	63.5	64.4	67.2	71.2	75.9	81.5	89.5
75°	47.5	47.5	47.5	47.5	48.8	49.5	50.5	51.5	53.1	55.7	61.6
77.5°	35.1	35.1	35.6	35.9	36.2	36.6	37.2	38.2	38.7	40.2	42.7
80°	27.7	28.1	27.7	28.1	28.1	28.7	29.0	30.0	30.3	32.0	33.0
82.5°	20.8	20.7	20.8	21.2	21.2	21.9	21.9	22.6	22.7	23.5	24.5
85°	11.2	10.6	11.2	10.8	11.5	10.8	11.2	11.9	11.9	12.2	13.5
87.5°	7.7	8.4	7.7	7.7	7.9	7.8	7.7	7.5	7.8	7.7	7.5
90°	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5	20.7	21.5	18.9
92.5°	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3	99.7	132.2	145.4
95°	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4	413.4	509.6	453.7
97.5°	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3	845.0	789.8	578.2
100°	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3	983.2	813.9	550.0
102.5°	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7	990.1	769.2	508.8
105°	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2	937.6	691.0	458.1
107.5°	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6	845.8	621.9	425.8
110°	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9	788.1	582.7	413.4



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9	737.9	556.6	406.5
115°	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2	677.3	528.6	403.9
117.5°	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9	640.6	512.0	405.4
120°	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5	621.4	504.5	408.2
122.5°	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1	605.5	499.6	413.0
125°	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3	585.3	493.4	420.3
127.5°	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7	567.4	490.3	428.5
130°	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2	557.8	488.2	434.0
132.5°	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9	548.8	487.5	438.2
135°	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7	537.2	486.5	444.4
137.5°	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6	527.0	484.6	448.4
140°	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2	520.8	483.9	451.2
142.5°	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5	515.3	482.5	453.2
145°	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5	507.9	480.4	454.6
147.5°	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9	500.7	477.2	454.6
150°	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7	495.8	474.4	454.6
152.5°	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1	490.4	471.0	452.5
155°	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7	482.2	464.9	450.3
157.5°	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7	472.9	459.6	447.5
160°	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9	466.7	455.5	446.1
162.5°	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6	460.5	451.3	443.3
165°	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9	452.0	445.2	439.2
167.5°	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6	444.0	439.0	435.1
170°	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5	439.2	434.9	432.3
172.5°	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0	434.4	431.4	430.2
175°	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6	428.9	427.1	427.1
177.5°	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9	425.2	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	795.4	794.6	790.9	786.7	781.2	777.5	774.6	773.0	768.3	762.4	758.5
5°	844.6	834.7	824.1	811.2	799.4	787.2	779.6	770.7	759.8	747.6	739.0
7.5°	897.2	877.8	856.9	835.3	814.0	794.9	778.0	763.5	746.2	728.8	716.4
10°	937.5	909.2	879.9	849.8	822.4	796.8	777.0	757.5	736.8	716.6	701.5
12.5°	974.2	936.9	903.1	866.2	831.2	800.5	772.0	749.1	724.1	702.7	685.4
15°	1020.6	982.4	941.5	885.5	839.0	800.0	765.4	735.4	705.1	678.7	661.9
17.5°	1064.0	1006.5	951.6	904.7	844.4	795.7	753.5	717.6	684.3	656.3	635.6
20°	1082.0	1026.3	966.6	906.9	847.6	793.2	744.0	704.4	669.8	638.1	619.0
22.5°	1092.8	1029.7	966.8	902.7	839.6	783.1	734.5	691.0	653.4	623.4	599.8
25°	1105.4	1030.2	961.0	897.7	833.4	772.0	714.3	668.1	627.6	595.6	570.5
27.5°	1113.7	1025.3	943.4	873.1	807.8	746.7	693.9	644.9	603.7	569.9	543.0
30°	1115.3	1021.3	930.0	853.8	787.5	731.4	675.4	628.5	585.0	549.1	524.0
32.5°	1117.4	1011.6	911.8	830.9	763.0	707.5	656.7	611.9	567.3	531.9	506.4
35°	1108.7	1006.2	884.2	791.2	723.2	669.4	623.6	582.4	538.6	504.2	478.2
37.5°	1071.3	984.7	855.5	746.4	675.4	625.6	588.2	552.3	512.1	475.1	450.6
40°	1033.5	963.6	833.4	719.3	645.1	593.9	560.3	531.0	492.1	457.4	431.0
42.5°	977.3	934.9	812.3	690.8	610.7	561.5	533.1	505.6	471.5	436.3	411.5
45°	874.3	879.9	769.0	645.4	563.3	513.8	487.1	468.0	437.6	408.6	383.2
47.5°	744.9	797.4	718.3	597.0	513.2	466.7	443.4	426.7	406.3	377.8	354.6
50°	660.6	735.4	677.7	564.6	481.8	435.7	412.6	399.1	381.3	358.8	336.7
52.5°	582.7	663.1	628.6	528.4	447.8	405.5	383.0	371.9	357.7	336.7	316.7
55°	475.2	556.6	548.7	473.9	396.7	358.8	341.6	329.2	319.5	303.8	287.9
57.5°	384.4	461.6	465.7	413.2	351.7	314.3	299.5	290.1	283.8	271.9	257.3
60°	327.2	398.0	411.9	372.3	319.5	286.5	272.1	264.5	259.5	249.9	238.8
62.5°	279.7	340.0	355.7	327.2	288.7	257.8	246.5	239.2	235.8	227.6	217.7
65°	214.0	264.2	279.3	263.5	243.4	218.6	209.4	203.1	200.2	195.5	188.3
67.5°	160.9	197.5	214.1	202.9	195.7	180.0	174.2	170.8	168.2	165.1	158.9
70°	129.2	156.4	173.5	170.5	164.5	156.4	152.1	149.7	147.1	144.5	139.1
72.5°	103.9	122.5	138.6	140.2	135.3	133.6	129.8	128.9	127.3	124.2	121.2
75°	69.0	81.8	93.0	97.3	99.3	100.9	99.3	98.9	98.6	96.0	94.3
77.5°	45.2	52.1	59.2	66.5	69.6	71.8	72.3	73.5	72.7	71.3	70.5
80°	34.6	36.2	41.2	47.5	52.4	54.4	55.7	56.4	56.1	55.7	54.4
82.5°	25.1	26.5	28.8	33.2	37.4	40.7	41.5	41.3	42.1	42.3	41.2
85°	13.5	13.9	14.6	15.2	17.5	21.1	22.1	22.7	23.4	23.4	21.4
87.5°	7.5	6.7	6.7	6.4	6.8	6.5	7.8	8.8	9.4	8.7	9.2
90°	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7	3.4	5.2	7.7
92.5°	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7	15.8	23.1	29.7
95°	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2	31.8	41.2	55.9
97.5°	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9	50.7	58.1	70.8
100°	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6	64.5	70.5	82.5
102.5°	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0	79.6	84.9	96.3
105°	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7	102.3	107.5	117.8
107.5°	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7	125.3	130.3	140.4
110°	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2	141.8	146.1	155.6





TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4	157.0	161.3	170.7
115°	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2	179.6	184.8	193.4
117.5°	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0	202.0	206.3	214.1
120°	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1	215.7	220.0	228.6
122.5°	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2	228.8	233.1	242.4
125°	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0	246.7	251.8	261.2
127.5°	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2	261.7	268.1	277.8
130°	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1	270.7	278.4	288.8
132.5°	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0	278.3	286.7	299.1
135°	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1	290.5	300.0	312.8
137.5°	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4	302.0	311.3	325.0
140°	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0	310.2	318.8	332.6
142.5°	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2	317.8	327.1	339.5
145°	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4	330.0	337.8	350.7
147.5°	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9	342.4	350.0	361.1
150°	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8	350.7	357.5	368.7
152.5°	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7	358.9	365.8	375.6
155°	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1	372.1	377.3	385.9
157.5°	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8	383.5	387.6	395.2
160°	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1	391.1	394.5	401.3
162.5°	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3	397.3	400.0	405.4
165°	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5	405.6	407.3	411.6
167.5°	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5	412.5	413.4	416.6
170°	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7	415.9	416.8	419.4
172.5°	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4	419.4	419.6	421.5
175°	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7	422.8	422.0	423.7
177.5°	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2	424.6	423.9	424.6
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	757.2	753.7	751.4	746.1	742.7	739.0	735.3	737.6	737.4	737.1	737.1
5°	731.8	724.2	717.3	708.3	702.7	695.9	690.5	689.9	691.2	686.6	684.0
7.5°	706.6	696.2	686.4	676.6	666.2	657.8	652.6	650.2	646.9	644.0	641.0
10°	688.9	676.7	667.1	655.0	643.8	633.9	627.6	623.3	621.0	618.6	614.4
12.5°	670.7	658.8	646.5	632.7	622.1	610.6	606.0	601.2	596.7	594.1	588.2
15°	644.0	628.5	615.7	601.2	589.4	578.1	571.5	562.0	560.6	557.3	551.4
17.5°	617.3	600.5	582.8	572.0	558.6	547.0	536.9	533.7	524.3	520.7	515.6
20°	596.2	580.7	567.2	553.0	533.6	522.7	514.8	510.5	502.9	498.3	495.0
22.5°	578.1	562.2	546.6	530.1	514.0	501.9	496.0	489.4	485.3	478.8	475.2
25°	552.1	534.9	516.1	498.3	486.7	477.5	468.3	462.4	456.4	453.4	446.9
27.5°	521.9	503.9	486.4	472.9	458.7	449.5	441.2	435.9	428.8	423.8	420.2
30°	505.2	484.1	469.0	456.8	438.6	430.1	423.8	417.2	411.9	406.7	402.9
32.5°	485.9	466.7	452.3	437.2	423.3	414.0	405.8	400.0	395.5	390.5	386.9
35°	455.7	439.6	424.7	409.6	399.3	389.8	380.2	375.3	371.0	366.4	363.1
37.5°	428.4	413.4	399.2	384.9	372.2	364.4	356.7	352.9	347.2	344.1	340.7
40°	411.6	396.7	381.6	367.7	354.5	348.6	341.6	336.0	330.8	328.5	324.9
42.5°	393.1	378.2	365.5	350.5	339.8	331.7	325.3	319.2	315.2	311.9	309.8
45°	365.8	352.5	340.0	325.2	315.0	308.0	300.7	295.2	291.5	289.2	285.6
47.5°	339.1	326.0	313.2	300.3	290.4	282.5	275.3	271.3	266.6	263.7	261.2
50°	319.9	308.0	294.5	282.6	272.8	264.8	258.9	253.9	249.6	246.0	244.4
52.5°	302.2	289.6	277.8	266.8	256.4	247.4	242.0	236.8	233.6	229.4	227.5
55°	273.0	260.9	251.0	240.0	229.9	222.3	215.7	211.0	207.8	203.1	200.5
57.5°	245.6	234.7	222.9	213.5	202.9	196.6	191.1	184.8	180.8	177.2	174.6
60°	227.2	214.6	204.5	195.5	186.3	178.1	173.1	168.2	163.9	160.2	158.0
62.5°	207.9	197.0	187.4	177.6	169.2	162.0	156.3	152.1	148.4	146.0	143.7
65°	178.4	169.9	160.0	152.1	144.1	138.9	134.2	130.6	127.9	126.3	124.3
67.5°	151.3	142.9	134.3	126.5	121.2	117.2	114.2	111.1	109.8	107.6	106.3
70°	133.5	125.0	117.4	111.5	106.2	103.2	101.3	98.9	97.6	95.0	93.7
72.5°	114.3	108.1	102.6	97.7	93.5	90.8	88.3	85.5	83.3	80.5	79.1
75°	90.1	84.5	80.2	76.8	74.2	70.6	67.0	64.0	63.0	62.0	61.6
77.5°	66.6	63.1	60.0	57.3	54.0	51.3	50.5	49.9	49.7	49.2	49.2
80°	52.4	49.2	46.8	43.6	41.6	41.6	41.6	40.9	41.2	41.2	41.2
82.5°	39.0	35.9	34.7	33.5	33.1	33.4	33.4	33.5	33.3	33.8	33.6
85°	20.1	20.4	21.1	20.8	21.1	21.1	21.8	21.4	21.8	21.1	21.8
87.5°	9.3	10.4	11.2	12.0	12.7	13.0	13.1	13.3	13.7	13.9	14.2
90°	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5	22.4	23.2	24.9
92.5°	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3	57.4	50.7	46.2
95°	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4	209.7	164.2	133.2
97.5°	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3	617.8	506.9	404.1
100°	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3	943.7	843.1	721.1
102.5°	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7	1091.5	1032.9	955.5
105°	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2	1203.2	1219.5	1197.2
107.5°	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6	1189.1	1264.4	1295.0
110°	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9	1143.1	1251.3	1311.5



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9	1082.5	1203.9	1281.3
115°	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2	985.8	1112.1	1205.7
117.5°	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9	904.0	1017.4	1112.4
120°	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5	858.6	961.7	1048.5
122.5°	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1	822.2	917.7	998.3
125°	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3	777.0	859.5	928.2
127.5°	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7	737.2	811.7	874.2
130°	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2	712.5	782.0	840.5
132.5°	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9	689.1	753.9	809.6
135°	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7	655.7	711.6	760.6
137.5°	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6	623.6	671.8	714.2
140°	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2	605.0	646.3	683.3
142.5°	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5	587.2	622.9	655.0
145°	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5	563.8	591.2	616.2
147.5°	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9	546.4	568.6	586.3
150°	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7	535.5	553.5	569.8
152.5°	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1	525.1	541.1	554.7
155°	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7	510.5	523.4	533.7
157.5°	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7	496.2	506.2	514.3
160°	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9	487.3	495.8	501.9
162.5°	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6	477.7	485.6	490.9
165°	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9	464.1	470.1	474.4
167.5°	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6	453.6	457.0	460.1
170°	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5	446.1	449.4	451.2
172.5°	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0	439.9	442.6	443.7
175°	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6	431.4	433.2	433.2
177.5°	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9	426.6	427.3	427.3
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	733.9	733.7	733.9	732.9	733.9	733.7	733.9	737.1	737.1	737.4	737.6
5°	682.9	682.6	681.7	678.7	681.7	682.6	682.9	684.0	686.6	691.2	689.9
7.5°	638.4	638.0	635.1	635.2	635.1	638.0	638.4	641.0	644.0	646.9	650.2
10°	612.1	612.4	608.5	606.1	608.5	612.4	612.1	614.4	618.6	621.0	623.3
12.5°	586.5	585.0	581.8	579.2	581.8	585.0	586.5	588.2	594.1	596.7	601.2
15°	552.7	549.4	541.5	542.2	541.5	549.4	552.7	551.4	557.3	560.6	562.0
17.5°	512.9	510.5	510.4	505.8	510.4	510.5	512.9	515.6	520.7	524.3	533.7
20°	489.7	488.1	488.7	484.1	488.7	488.1	489.7	495.0	498.3	502.9	510.5
22.5°	471.5	469.8	467.1	465.6	467.1	469.8	471.5	475.2	478.8	485.3	489.4
25°	444.9	442.2	439.6	441.3	439.6	442.2	444.9	446.9	453.4	456.4	462.4
27.5°	418.2	416.2	413.6	413.3	413.6	416.2	418.2	420.2	423.8	428.8	435.9
30°	401.3	399.3	398.0	396.4	398.0	399.3	401.3	402.9	406.7	411.9	417.2
32.5°	384.2	383.8	381.4	381.1	381.4	383.8	384.2	386.9	390.5	395.5	400.0
35°	361.8	359.8	359.1	359.5	359.1	359.8	361.8	363.1	366.4	371.0	375.3
37.5°	340.4	337.9	336.7	335.4	336.7	337.9	340.4	340.7	344.1	347.2	352.9
40°	325.2	322.5	321.8	321.2	321.8	322.5	325.2	324.9	328.5	330.8	336.0
42.5°	308.0	306.9	306.6	305.4	306.6	306.9	308.0	309.8	311.9	315.2	319.2
45°	284.6	284.3	282.3	282.9	282.3	284.3	284.6	285.6	289.2	291.5	295.2
47.5°	259.9	258.5	257.1	258.0	257.1	258.5	259.9	261.2	263.7	266.6	271.3
50°	243.1	242.4	239.4	240.0	239.4	242.4	243.1	244.4	246.0	249.6	253.9
52.5°	226.2	223.7	222.6	222.1	222.6	223.7	226.2	227.5	229.4	233.6	236.8
55°	198.2	195.2	193.9	193.2	193.9	195.2	198.2	200.5	203.1	207.8	211.0
57.5°	170.7	170.0	168.9	169.6	168.9	170.0	170.7	174.6	177.2	180.8	184.8
60°	154.6	154.6	154.6	154.4	154.6	154.6	154.6	158.0	160.2	163.9	168.2
62.5°	142.2	141.5	141.2	141.6	141.2	141.5	142.2	143.7	146.0	148.4	152.1
65°	123.3	123.0	121.7	121.4	121.7	123.0	123.3	124.3	126.3	127.9	130.6
67.5°	105.5	104.3	103.9	103.4	103.9	104.3	105.5	106.3	107.6	109.8	111.1
70°	92.0	91.4	89.4	89.7	89.4	91.4	92.0	93.7	95.0	97.6	98.9
72.5°	77.5	76.8	76.5	75.9	76.5	76.8	77.5	79.1	80.5	83.3	85.5
75°	61.3	61.0	60.7	62.0	60.7	61.0	61.3	61.6	62.0	63.0	64.0
77.5°	49.2	49.2	49.3	48.8	49.3	49.2	49.2	49.2	49.2	49.7	49.9
80°	41.2	41.2	40.9	40.9	40.9	41.2	41.2	41.2	41.2	41.2	40.9
82.5°	33.1	33.3	33.5	33.0	33.5	33.3	33.1	33.6	33.8	33.3	33.5
85°	21.8	21.4	22.1	21.8	22.1	21.4	21.8	21.8	21.1	21.8	21.4
87.5°	14.6	14.2	14.4	14.5	14.4	14.2	14.6	14.2	13.9	13.7	13.3
90°	24.0	24.9	25.7	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5
92.5°	44.7	42.1	43.0	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3
95°	116.9	109.2	103.1	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4
97.5°	340.7	302.0	278.8	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3
100°	634.3	571.5	538.0	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3
102.5°	887.9	838.3	810.3	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7
105°	1157.6	1125.0	1097.5	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2
107.5°	1295.7	1284.7	1275.4	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6
110°	1335.6	1342.5	1340.7	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1325.3	1346.5	1353.1	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9
115°	1270.2	1308.0	1325.3	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2
117.5°	1179.7	1223.0	1247.8	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9
120°	1116.4	1164.5	1185.2	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5
122.5°	1058.7	1102.0	1124.6	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1
125°	983.2	1021.0	1042.5	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3
127.5°	923.2	955.5	974.9	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7
130°	886.1	917.1	935.0	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2
132.5°	852.4	883.3	899.3	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9
135°	802.7	828.5	844.0	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7
137.5°	749.6	775.8	788.8	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6
140°	715.9	739.9	753.7	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2
142.5°	682.9	704.2	716.6	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5
145°	637.7	655.7	662.6	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5
147.5°	602.6	614.8	621.4	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9
150°	582.7	592.1	597.3	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7
152.5°	564.8	573.6	576.7	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1
155°	541.5	548.3	550.0	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7
157.5°	521.0	526.2	527.5	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7
160°	507.9	513.1	513.1	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9
162.5°	494.9	499.3	499.3	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6
165°	477.9	481.3	480.4	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9
167.5°	461.7	464.1	463.2	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6
170°	452.0	453.7	452.9	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5
172.5°	443.8	445.6	444.0	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0
175°	433.2	434.0	433.2	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6
177.5°	426.6	427.3	425.9	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	735.3	739.0	742.7	746.1	751.4	753.7	757.2	758.5	762.4	768.3	773.0
5°	690.5	695.9	702.7	708.3	717.3	724.2	731.8	739.0	747.6	759.8	770.7
7.5°	652.6	657.8	666.2	676.6	686.4	696.2	706.6	716.4	728.8	746.2	763.5
10°	627.6	633.9	643.8	655.0	667.1	676.7	688.9	701.5	716.6	736.8	757.5
12.5°	606.0	610.6	622.1	632.7	646.5	658.8	670.7	685.4	702.7	724.1	749.1
15°	571.5	578.1	589.4	601.2	615.7	628.5	644.0	661.9	678.7	705.1	735.4
17.5°	536.9	547.0	558.6	572.0	582.8	600.5	617.3	635.6	656.3	684.3	717.6
20°	514.8	522.7	533.6	553.0	567.2	580.7	596.2	619.0	638.1	669.8	704.4
22.5°	496.0	501.9	514.0	530.1	546.6	562.2	578.1	599.8	623.4	653.4	691.0
25°	468.3	477.5	486.7	498.3	516.1	534.9	552.1	570.5	595.6	627.6	668.1
27.5°	441.2	449.5	458.7	472.9	486.4	503.9	521.9	543.0	569.9	603.7	644.9
30°	423.8	430.1	438.6	456.8	469.0	484.1	505.2	524.0	549.1	585.0	628.5
32.5°	405.8	414.0	423.3	437.2	452.3	466.7	485.9	506.4	531.9	567.3	611.9
35°	380.2	389.8	399.3	409.6	424.7	439.6	455.7	478.2	504.2	538.6	582.4
37.5°	356.7	364.4	372.2	384.9	399.2	413.4	428.4	450.6	475.1	512.1	552.3
40°	341.6	348.6	354.5	367.7	381.6	396.7	411.6	431.0	457.4	492.1	531.0
42.5°	325.3	331.7	339.8	350.5	365.5	378.2	393.1	411.5	436.3	471.5	505.6
45°	300.7	308.0	315.0	325.2	340.0	352.5	365.8	383.2	408.6	437.6	468.0
47.5°	275.3	282.5	290.4	300.3	313.2	326.0	339.1	354.6	377.8	406.3	426.7
50°	258.9	264.8	272.8	282.6	294.5	308.0	319.9	336.7	358.8	381.3	399.1
52.5°	242.0	247.4	256.4	266.8	277.8	289.6	302.2	316.7	336.7	357.7	371.9
55°	215.7	222.3	229.9	240.0	251.0	260.9	273.0	287.9	303.8	319.5	329.2
57.5°	191.1	196.6	202.9	213.5	222.9	234.7	245.6	257.3	271.9	283.8	290.1
60°	173.1	178.1	186.3	195.5	204.5	214.6	227.2	238.8	249.9	259.5	264.5
62.5°	156.3	162.0	169.2	177.6	187.4	197.0	207.9	217.7	227.6	235.8	239.2
65°	134.2	138.9	144.1	152.1	160.0	169.9	178.4	188.3	195.5	200.2	203.1
67.5°	114.2	117.2	121.2	126.5	134.3	142.9	151.3	158.9	165.1	168.2	170.8
70°	101.3	103.2	106.2	111.5	117.4	125.0	133.5	139.1	144.5	147.1	149.7
72.5°	88.3	90.8	93.5	97.7	102.6	108.1	114.3	121.2	124.2	127.3	128.9
75°	67.0	70.6	74.2	76.8	80.2	84.5	90.1	94.3	96.0	98.6	98.9
77.5°	50.5	51.3	54.0	57.3	60.0	63.1	66.6	70.5	71.3	72.7	73.5
80°	41.6	41.6	41.6	43.6	46.8	49.2	52.4	54.4	55.7	56.1	56.4
82.5°	33.4	33.4	33.1	33.5	34.7	35.9	39.0	41.2	42.3	42.1	41.3
85°	21.8	21.1	21.1	20.8	21.1	20.4	20.1	21.4	23.4	23.4	22.7
87.5°	13.1	13.0	12.7	12.0	11.2	10.4	9.3	9.2	8.7	9.4	8.8
90°	20.7	21.5	18.9	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7
92.5°	99.7	132.2	145.4	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7
95°	413.4	509.6	453.7	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2
97.5°	845.0	789.8	578.2	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9
100°	983.2	813.9	550.0	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6
102.5°	990.1	769.2	508.8	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0
105°	937.6	691.0	458.1	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7
107.5°	845.8	621.9	425.8	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7
110°	788.1	582.7	413.4	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	737.9	556.6	406.5	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4
115°	677.3	528.6	403.9	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2
117.5°	640.6	512.0	405.4	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0
120°	621.4	504.5	408.2	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1
122.5°	605.5	499.6	413.0	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2
125°	585.3	493.4	420.3	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0
127.5°	567.4	490.3	428.5	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2
130°	557.8	488.2	434.0	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1
132.5°	548.8	487.5	438.2	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0
135°	537.2	486.5	444.4	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1
137.5°	527.0	484.6	448.4	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4
140°	520.8	483.9	451.2	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0
142.5°	515.3	482.5	453.2	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2
145°	507.9	480.4	454.6	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4
147.5°	500.7	477.2	454.6	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9
150°	495.8	474.4	454.6	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8
152.5°	490.4	471.0	452.5	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7
155°	482.2	464.9	450.3	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1
157.5°	472.9	459.6	447.5	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8
160°	466.7	455.5	446.1	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1
162.5°	460.5	451.3	443.3	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3
165°	452.0	445.2	439.2	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5
167.5°	444.0	439.0	435.1	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5
170°	439.2	434.9	432.3	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7
172.5°	434.4	431.4	430.2	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4
175°	428.9	427.1	427.1	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7
177.5°	425.2	424.6	425.2	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	774.6	777.5	781.2	786.7	790.9	794.6	795.4	796.5	799.1	803.6	807.0
5°	779.6	787.2	799.4	811.2	824.1	834.7	844.6	851.5	858.1	871.9	883.1
7.5°	778.0	794.9	814.0	835.3	856.9	877.8	897.2	914.6	931.9	952.0	975.0
10°	777.0	796.8	822.4	849.8	879.9	909.2	937.5	959.7	985.4	1008.5	1037.8
12.5°	772.0	800.5	831.2	866.2	903.1	936.9	974.2	1004.8	1034.1	1067.6	1101.6
15°	765.4	800.0	839.0	885.5	941.5	982.4	1020.6	1073.8	1110.0	1146.3	1195.2
17.5°	753.5	795.7	844.4	904.7	951.6	1006.5	1064.0	1106.0	1154.9	1206.0	1250.2
20°	744.0	793.2	847.6	906.9	966.6	1026.3	1082.0	1132.1	1182.6	1241.6	1277.9
22.5°	734.5	783.1	839.6	902.7	966.8	1029.7	1092.8	1151.7	1208.4	1268.0	1314.3
25°	714.3	772.0	833.4	897.7	961.0	1030.2	1105.4	1171.0	1241.3	1302.6	1346.5
27.5°	693.9	746.7	807.8	873.1	943.4	1025.3	1113.7	1188.4	1258.7	1302.6	1316.4
30°	675.4	731.4	787.5	853.8	930.0	1021.3	1115.3	1200.8	1258.4	1277.6	1263.3
32.5°	656.7	707.5	763.0	830.9	911.8	1011.6	1117.4	1193.3	1228.1	1213.5	1155.7
35°	623.6	669.4	723.2	791.2	884.2	1006.2	1108.7	1160.2	1151.6	1069.1	960.3
37.5°	588.2	625.6	675.4	746.4	855.5	984.7	1071.3	1078.8	1004.6	878.0	752.3
40°	560.3	593.9	645.1	719.3	833.4	963.6	1033.5	1002.9	887.8	746.9	642.0
42.5°	533.1	561.5	610.7	690.8	812.3	934.9	977.3	910.5	777.7	644.5	549.2
45°	487.1	513.8	563.3	645.4	769.0	879.9	874.3	758.2	625.3	518.1	438.9
47.5°	443.4	466.7	513.2	597.0	718.3	797.4	744.9	621.5	508.7	422.8	366.3
50°	412.6	435.7	481.8	564.6	677.7	735.4	660.6	541.5	438.2	367.0	322.2
52.5°	383.0	405.5	447.8	528.4	628.6	663.1	582.7	472.3	386.3	324.9	286.3
55°	341.6	358.8	396.7	473.9	548.7	556.6	475.2	382.9	311.9	269.1	242.7
57.5°	299.5	314.3	351.7	413.2	465.7	461.6	384.4	304.5	256.8	224.9	205.8
60°	272.1	286.5	319.5	372.3	411.9	398.0	327.2	262.9	222.0	198.5	183.4
62.5°	246.5	257.8	288.7	327.2	355.7	340.0	279.7	226.4	194.0	174.3	162.2
65°	209.4	218.6	243.4	263.5	279.3	264.2	214.0	177.1	153.7	139.8	131.6
67.5°	174.2	180.0	195.7	202.9	214.1	197.5	160.9	136.2	122.9	111.2	105.5
70°	152.1	156.4	164.5	170.5	173.5	156.4	129.2	111.2	100.0	91.7	88.1
72.5°	129.8	133.6	135.3	140.2	138.6	122.5	103.9	89.5	81.5	75.9	71.2
75°	99.3	100.9	99.3	97.3	93.0	81.8	69.0	61.6	55.7	53.1	51.5
77.5°	72.3	71.8	69.6	66.5	59.2	52.1	45.2	42.7	40.2	38.7	38.2
80°	55.7	54.4	52.4	47.5	41.2	36.2	34.6	33.0	32.0	30.3	30.0
82.5°	41.5	40.7	37.4	33.2	28.8	26.5	25.1	24.5	23.5	22.7	22.6
85°	22.1	21.1	17.5	15.2	14.6	13.9	13.5	13.5	12.2	11.9	11.9
87.5°	7.8	6.5	6.8	6.4	6.7	6.7	7.5	7.5	7.7	7.8	7.5
90°	3.4	5.2	7.7	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5
92.5°	15.8	23.1	29.7	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3
95°	31.8	41.2	55.9	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4
97.5°	50.7	58.1	70.8	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3
100°	64.5	70.5	82.5	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3
102.5°	79.6	84.9	96.3	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7
105°	102.3	107.5	117.8	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2
107.5°	125.3	130.3	140.4	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6
110°	141.8	146.1	155.6	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9





TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.0	161.3	170.7	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9
115°	179.6	184.8	193.4	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2
117.5°	202.0	206.3	214.1	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9
120°	215.7	220.0	228.6	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5
122.5°	228.8	233.1	242.4	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1
125°	246.7	251.8	261.2	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3
127.5°	261.7	268.1	277.8	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7
130°	270.7	278.4	288.8	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2
132.5°	278.3	286.7	299.1	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9
135°	290.5	300.0	312.8	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7
137.5°	302.0	311.3	325.0	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6
140°	310.2	318.8	332.6	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2
142.5°	317.8	327.1	339.5	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5
145°	330.0	337.8	350.7	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5
147.5°	342.4	350.0	361.1	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9
150°	350.7	357.5	368.7	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7
152.5°	358.9	365.8	375.6	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1
155°	372.1	377.3	385.9	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7
157.5°	383.5	387.6	395.2	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7
160°	391.1	394.5	401.3	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9
162.5°	397.3	400.0	405.4	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6
165°	405.6	407.3	411.6	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9
167.5°	412.5	413.4	416.6	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6
170°	415.9	416.8	419.4	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5
172.5°	419.4	419.6	421.5	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0
175°	422.8	422.0	423.7	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6
177.5°	424.6	423.9	424.6	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	812.6	812.6	813.6	817.6	818.1	821.6	820.4
5°	893.0	899.3	901.6	911.5	917.5	920.1	914.8
7.5°	991.4	1009.1	1017.5	1027.9	1037.0	1039.8	1032.6
10°	1063.2	1081.7	1097.2	1106.7	1115.7	1121.5	1129.2
12.5°	1132.6	1155.3	1170.0	1183.5	1192.7	1200.2	1201.4
15°	1208.0	1242.3	1268.3	1287.5	1297.0	1302.0	1300.0
17.5°	1284.0	1315.8	1334.4	1353.8	1367.1	1367.8	1368.2
20°	1327.1	1358.1	1379.5	1394.0	1408.9	1408.2	1411.4
22.5°	1355.8	1380.2	1396.6	1407.1	1412.2	1409.7	1410.4
25°	1369.2	1376.5	1373.6	1356.7	1352.5	1337.0	1339.5
27.5°	1299.9	1265.6	1230.1	1184.4	1148.4	1119.6	1121.1
30°	1205.7	1145.0	1075.7	1017.7	965.6	951.1	920.1
32.5°	1074.0	983.0	901.9	847.8	803.1	790.9	763.9
35°	850.8	762.4	679.0	628.9	609.1	581.4	581.1
37.5°	661.3	583.5	539.4	501.8	482.1	465.3	463.6
40°	556.4	495.7	462.4	435.3	415.9	403.3	400.4
42.5°	483.0	433.9	402.7	386.0	371.0	364.5	359.7
45°	394.4	361.4	339.7	324.5	317.5	312.6	310.0
47.5°	329.9	307.8	293.0	282.9	277.2	272.1	273.5
50°	294.8	276.7	265.8	256.2	251.9	248.3	248.7
52.5°	266.6	250.3	241.5	234.6	229.3	226.7	225.4
55°	226.3	216.0	207.1	202.2	199.1	195.5	194.6
57.5°	193.0	185.0	177.8	172.2	171.5	168.0	168.4
60°	170.8	164.2	158.3	155.3	153.0	150.1	151.0
62.5°	152.7	147.1	141.6	139.2	136.9	134.7	135.2
65°	125.0	119.7	116.4	115.1	114.1	113.1	112.1
67.5°	99.6	96.3	94.3	91.4	89.5	89.1	88.1
70°	83.8	79.5	75.9	72.2	71.2	70.9	71.2
72.5°	67.2	64.4	63.5	61.6	61.5	60.6	61.2
75°	50.5	49.5	48.8	47.5	47.5	47.5	47.5
77.5°	37.2	36.6	36.2	35.9	35.6	35.1	35.1
80°	29.0	28.7	28.1	28.1	27.7	28.1	27.7
82.5°	21.9	21.9	21.2	21.2	20.8	20.7	20.8
85°	11.2	10.8	11.5	10.8	11.2	10.6	11.2
87.5°	7.7	7.8	7.9	7.7	7.7	8.4	7.7
90°	22.4	23.2	24.9	24.0	24.9	25.7	24.9
92.5°	57.4	50.7	46.2	44.7	42.1	43.0	41.4
95°	209.7	164.2	133.2	116.9	109.2	103.1	99.7
97.5°	617.8	506.9	404.1	340.7	302.0	278.8	271.4
100°	943.7	843.1	721.1	634.3	571.5	538.0	538.9
102.5°	1091.5	1032.9	955.5	887.9	838.3	810.3	790.5
105°	1203.2	1219.5	1197.2	1157.6	1125.0	1097.5	1093.2
107.5°	1189.1	1264.4	1295.0	1295.7	1284.7	1275.4	1267.5
110°	1143.1	1251.3	1311.5	1335.6	1342.5	1340.7	1339.0



TEST NUMBER: P332290-935

CATALOG NUMBER: S123RDIP-S560D1025U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1082.5	1203.9	1281.3	1325.3	1346.5	1353.1	1353.4
115°	985.8	1112.1	1205.7	1270.2	1308.0	1325.3	1329.6
117.5°	904.0	1017.4	1112.4	1179.7	1223.0	1247.8	1253.5
120°	858.6	961.7	1048.5	1116.4	1164.5	1185.2	1190.3
122.5°	822.2	917.7	998.3	1058.7	1102.0	1124.6	1131.2
125°	777.0	859.5	928.2	983.2	1021.0	1042.5	1048.5
127.5°	737.2	811.7	874.2	923.2	955.5	974.9	980.4
130°	712.5	782.0	840.5	886.1	917.1	935.0	941.9
132.5°	689.1	753.9	809.6	852.4	883.3	899.3	904.1
135°	655.7	711.6	760.6	802.7	828.5	844.0	850.0
137.5°	623.6	671.8	714.2	749.6	775.8	788.8	792.7
140°	605.0	646.3	683.3	715.9	739.9	753.7	752.9
142.5°	587.2	622.9	655.0	682.9	704.2	716.6	715.7
145°	563.8	591.2	616.2	637.7	655.7	662.6	664.3
147.5°	546.4	568.6	586.3	602.6	614.8	621.4	622.1
150°	535.5	553.5	569.8	582.7	592.1	597.3	597.3
152.5°	525.1	541.1	554.7	564.8	573.6	576.7	576.7
155°	510.5	523.4	533.7	541.5	548.3	550.0	550.9
157.5°	496.2	506.2	514.3	521.0	526.2	527.5	527.4
160°	487.3	495.8	501.9	507.9	513.1	513.1	512.2
162.5°	477.7	485.6	490.9	494.9	499.3	499.3	498.4
165°	464.1	470.1	474.4	477.9	481.3	480.4	480.4
167.5°	453.6	457.0	460.1	461.7	464.1	463.2	463.2
170°	446.1	449.4	451.2	452.0	453.7	452.9	452.9
172.5°	439.9	442.6	443.7	443.8	445.6	444.0	443.3
175°	431.4	433.2	433.2	433.2	434.0	433.2	432.3
177.5°	426.6	427.3	427.3	426.6	427.3	425.9	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6

(END OF REPORT)