

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: P332272-935

Luminaire Tested: **S123RDIP-S560D365U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332272-935  
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-S560D365U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3050.1 lumens  
Efficiency: N/A  
Efficacy: 110.9 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-Direct

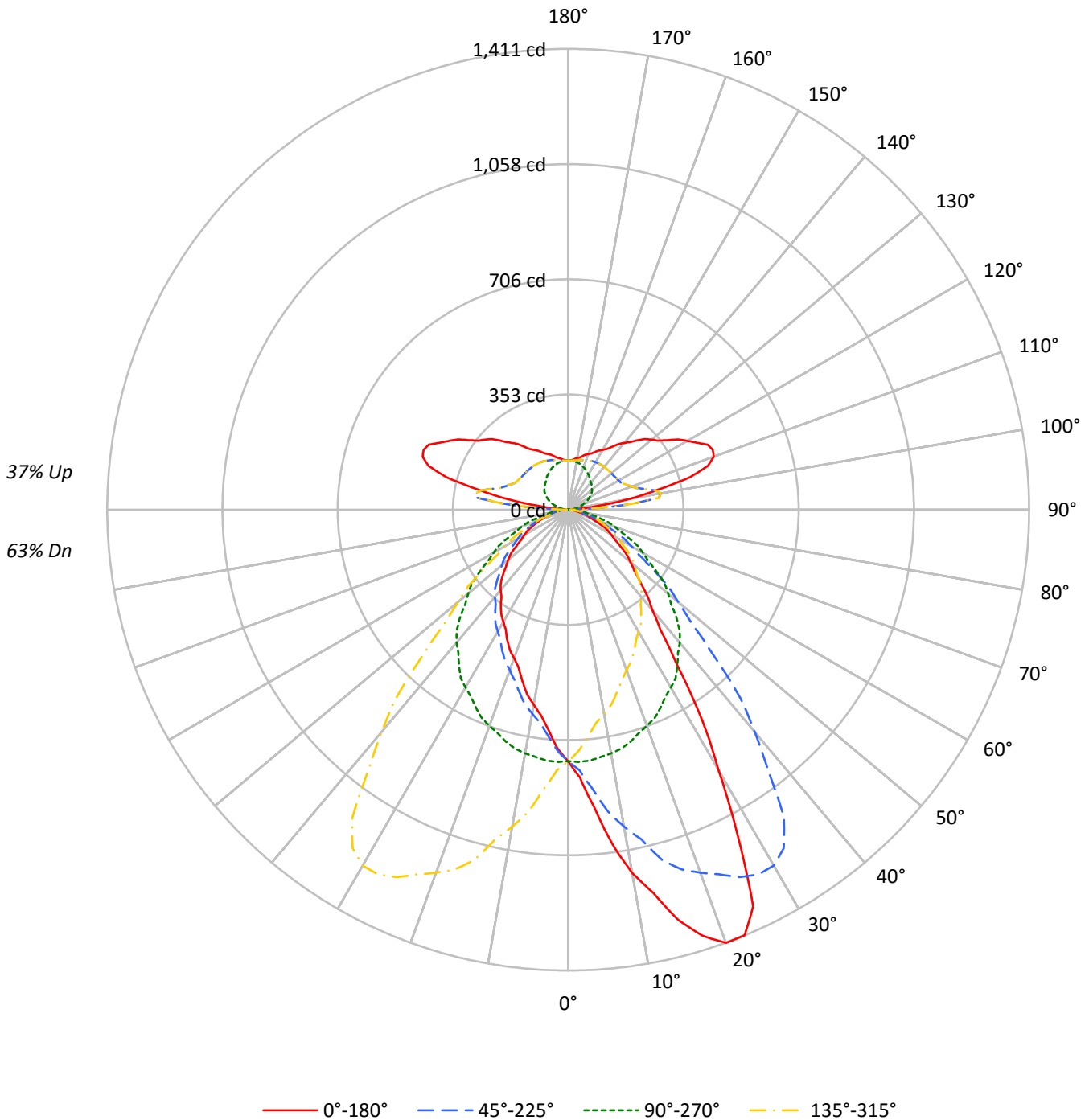
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	97	94	90	95	91	88	85	81	78	76	71	69	67	61	60	59	54
2	93	86	80	75	87	81	76	71	71	68	64	63	60	57	55	53	51	47
3	85	76	69	63	80	72	66	60	64	59	55	56	52	49	49	46	44	41
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	44	41	39	35
5	72	61	53	47	68	58	51	45	51	46	41	46	41	38	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	37	42	37	33	37	33	30	28
7	62	50	42	37	58	47	40	35	43	37	32	38	33	30	34	30	27	25
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	31	27	25	22
9	54	42	34	29	51	40	33	28	36	30	26	32	28	24	29	25	22	20
10	50	38	31	27	47	37	30	26	33	28	24	30	25	22	27	23	20	19

**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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	2.5
10°-20°	236.7	7.8
20°-30°	371.8	12.2
30°-40°	387.9	12.7
40°-50°	332.0	10.9
50°-60°	253.0	8.3
60°-70°	162.2	5.3
70°-80°	78.0	2.6
80°-90°	21.8	0.7
90°-100°	83.7	2.7
100°-110°	236.9	7.8
110°-120°	233.0	7.6
120°-130°	185.8	6.1
130°-140°	146.5	4.8
140°-150°	109.4	3.6
150°-160°	76.2	2.5
160°-170°	44.8	1.5
170°-180°	14.6	0.5
0°-30°	684.3	22.4
0°-40°	1072.2	35.2
0°-60°	1657.2	54.3
0°-90°	1919.2	62.9
90°-120°	553.5	18.1
90°-150°	995.3	32.6
90°-180°	1131.0	37.1
0°-180°	3050.1	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	13
90°	9	1	9	1	9	5
95°	35	10	35	10	35	64
105°	387	35	387	35	387	382
115°	471	62	471	62	471	457
125°	371	87	371	87	371	336
135°	301	102	301	102	301	233
145°	235	116	235	116	235	150
155°	195	132	195	132	195	91
165°	170	144	170	144	170	49
175°	153	150	153	150	153	15
180°	150	150	150	150	150	



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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°	4.4	5.0	4.4	4.6	4.6	4.8	4.7	4.6	5.2	5.0	5.0
90°	8.8	9.1	8.8	8.5	8.8	8.2	7.9	7.6	7.3	7.6	6.7
92.5°	14.6	15.2	14.9	15.8	16.4	17.9	20.3	25.7	35.3	46.8	51.5
95°	35.3	36.5	38.7	41.4	47.2	58.1	74.2	109.5	146.4	180.5	160.7
97.5°	96.1	98.7	106.9	120.6	143.1	179.4	218.7	273.0	299.1	279.7	204.7
100°	190.8	190.5	202.3	224.5	255.3	298.5	334.1	358.7	348.1	288.2	194.8
102.5°	279.8	286.9	296.8	314.4	338.3	365.7	386.4	387.2	350.5	272.3	180.1
105°	387.0	388.6	398.3	409.8	423.9	431.7	425.9	395.5	331.9	244.6	162.2
107.5°	448.8	451.5	454.8	458.7	458.5	447.6	420.9	371.5	299.5	220.2	150.8
110°	474.1	474.7	475.3	472.9	464.3	443.0	404.7	348.7	279.1	206.3	146.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	479.1	479.1	476.7	469.2	453.6	426.2	383.2	326.1	261.2	197.0	143.9
115°	470.7	469.2	463.0	449.7	426.9	393.7	349.0	296.0	239.8	187.1	143.0
117.5°	443.8	441.7	433.0	417.7	393.8	360.2	320.0	274.3	226.8	181.2	143.5
120°	421.4	419.6	412.2	395.2	371.2	340.4	303.9	262.9	220.0	178.6	144.6
122.5°	400.5	398.1	390.1	374.8	353.4	324.9	291.0	253.9	214.4	176.9	146.2
125°	371.2	369.1	361.4	348.1	328.6	304.3	275.1	241.9	207.2	174.6	148.8
127.5°	347.1	345.2	338.3	326.8	309.5	287.3	261.0	231.4	200.9	173.6	151.7
130°	333.5	331.1	324.7	313.7	297.6	276.9	252.3	224.8	197.4	172.8	153.7
132.5°	320.1	318.4	312.7	301.8	286.6	266.9	243.9	218.8	194.3	172.5	155.2
135°	300.9	298.8	293.3	284.2	269.2	251.9	232.1	210.5	190.2	172.2	157.3
137.5°	280.7	279.2	274.7	265.4	252.9	237.8	220.8	203.0	186.6	171.5	158.8
140°	266.6	266.8	262.0	253.5	241.9	228.8	214.2	198.7	184.3	171.3	159.7
142.5°	253.4	253.7	249.3	241.8	231.9	220.5	207.8	194.6	182.4	170.8	160.5
145°	235.2	234.6	232.1	225.8	218.2	209.3	199.6	189.6	179.8	170.0	160.9
147.5°	220.2	220.0	217.7	213.4	207.6	201.3	193.5	185.5	177.3	168.9	160.9
150°	211.5	211.5	209.7	206.3	201.7	196.0	189.6	182.5	175.6	168.0	160.9
152.5°	204.1	204.1	203.0	199.9	196.4	191.6	185.9	179.9	173.6	166.8	160.2
155°	195.0	194.8	194.2	191.7	188.9	185.3	180.7	175.9	170.7	164.6	159.5
157.5°	186.7	186.8	186.2	184.4	182.1	179.2	175.6	171.6	167.4	162.7	158.4
160°	181.3	181.7	181.7	179.8	177.7	175.6	172.5	169.2	165.2	161.3	157.9
162.5°	176.5	176.8	176.8	175.2	173.8	171.9	169.1	166.3	163.0	159.8	157.0
165°	170.0	170.0	170.4	169.2	168.0	166.4	164.3	162.5	160.1	157.6	155.5
167.5°	164.0	164.0	164.3	163.4	162.9	161.8	160.6	159.2	157.2	155.4	154.0
170°	160.3	160.3	160.7	160.1	159.7	159.1	157.9	157.0	155.5	153.9	153.1
172.5°	157.0	157.2	157.7	157.1	157.0	156.7	155.8	155.1	153.8	152.7	152.3
175°	153.1	153.3	153.7	153.3	153.3	153.3	152.7	152.4	151.8	151.2	151.2
177.5°	150.8	150.8	151.3	151.0	151.3	151.3	151.0	150.8	150.6	150.3	150.6
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



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**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°	5.3	4.9	5.3	5.2	5.9	5.9	7.4	8.5	9.0	8.0	8.2
90°	5.8	4.9	4.0	3.4	2.8	1.8	1.2	0.6	1.2	1.8	2.8
92.5°	38.7	25.6	17.6	13.1	10.5	8.2	5.6	3.8	5.6	8.2	10.5
95°	110.7	65.4	39.5	27.7	19.8	14.6	11.3	10.3	11.3	14.6	19.8
97.5°	121.5	70.4	45.7	32.9	25.1	20.6	17.9	17.7	17.9	20.6	25.1
100°	114.7	69.7	48.4	36.5	29.2	25.0	22.8	22.6	22.8	25.0	29.2
102.5°	108.8	70.7	51.6	40.6	34.1	30.0	28.2	27.6	28.2	30.0	34.1
105°	104.7	73.4	56.9	47.4	41.7	38.1	36.2	35.3	36.2	38.1	41.7
107.5°	104.4	78.4	63.9	55.1	49.7	46.1	44.3	43.5	44.3	46.1	49.7
110°	105.6	82.5	68.8	60.3	55.1	51.7	50.2	49.2	50.2	51.7	55.1





TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	108.1	86.6	73.9	65.6	60.4	57.1	55.5	54.7	55.5	57.1	60.4
115°	111.9	93.4	81.9	73.6	68.4	65.4	63.6	62.3	63.6	65.4	68.4
117.5°	117.2	100.7	89.2	81.6	75.9	73.0	71.5	70.1	71.5	73.0	75.9
120°	121.1	105.3	94.3	86.7	80.9	77.9	76.4	75.4	76.4	77.9	80.9
122.5°	124.8	110.1	99.4	91.4	85.8	82.5	81.0	80.1	81.0	82.5	85.8
125°	130.5	117.2	106.5	98.2	92.5	89.1	87.3	86.7	87.3	89.1	92.5
127.5°	135.3	123.2	113.0	104.7	98.3	95.0	92.6	91.8	92.6	95.0	98.3
130°	138.4	126.9	116.8	108.7	102.2	98.6	95.8	95.0	95.8	98.6	102.2
132.5°	141.4	130.0	120.3	112.3	105.9	101.5	98.5	97.4	98.5	101.5	105.9
135°	145.2	134.7	125.4	117.2	110.7	106.2	102.8	101.6	102.8	106.2	110.7
137.5°	147.9	138.1	129.0	121.4	115.0	110.2	106.9	105.6	106.9	110.2	115.0
140°	149.4	140.3	131.5	123.8	117.8	112.9	109.9	108.3	109.9	112.9	117.8
142.5°	150.8	142.0	133.4	126.3	120.2	115.8	112.5	111.2	112.5	115.8	120.2
145°	152.4	144.2	136.3	129.3	124.2	119.6	116.8	115.9	116.8	119.6	124.2
147.5°	153.4	146.0	138.8	132.9	127.9	123.9	121.2	120.7	121.2	123.9	127.9
150°	153.7	147.2	140.3	134.7	130.5	126.6	124.2	123.8	124.2	126.6	130.5
152.5°	154.1	148.0	142.0	136.7	132.9	129.5	127.1	127.0	127.1	129.5	132.9
155°	154.3	149.4	144.2	140.0	136.6	133.5	131.7	131.7	131.7	133.5	136.6
157.5°	154.5	150.2	146.0	142.8	139.9	137.2	135.8	135.5	135.8	137.2	139.9
160°	154.5	150.9	147.2	144.2	142.1	139.7	138.4	138.4	138.4	139.7	142.1
162.5°	154.3	151.2	148.0	145.4	143.5	141.6	140.6	140.6	140.6	141.6	143.5
165°	153.7	151.5	149.1	147.0	145.8	144.2	143.6	143.9	143.6	144.2	145.8
167.5°	153.2	151.4	149.7	148.4	147.5	146.4	146.0	146.4	146.0	146.4	147.5
170°	152.4	151.2	149.7	149.1	148.4	147.6	147.2	147.8	147.2	147.6	148.4
172.5°	152.2	151.2	149.9	149.6	149.2	148.5	148.4	148.9	148.4	148.5	149.2
175°	151.5	150.9	150.3	150.0	150.0	149.4	149.7	150.0	149.7	149.4	150.0
177.5°	151.0	150.6	150.3	150.3	150.3	150.1	150.3	150.6	150.3	150.1	150.3
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-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°	8.1	9.0	9.4	9.9	10.3	10.2	10.4	10.5	10.8	10.8	11.0
90°	3.4	4.0	4.9	5.8	6.7	7.6	7.3	7.6	7.9	8.2	8.8
92.5°	13.1	17.6	25.6	38.7	51.5	46.8	35.3	25.7	20.3	17.9	16.4
95°	27.7	39.5	65.4	110.7	160.7	180.5	146.4	109.5	74.2	58.1	47.2
97.5°	32.9	45.7	70.4	121.5	204.7	279.7	299.1	273.0	218.7	179.4	143.1
100°	36.5	48.4	69.7	114.7	194.8	288.2	348.1	358.7	334.1	298.5	255.3
102.5°	40.6	51.6	70.7	108.8	180.1	272.3	350.5	387.2	386.4	365.7	338.3
105°	47.4	56.9	73.4	104.7	162.2	244.6	331.9	395.5	425.9	431.7	423.9
107.5°	55.1	63.9	78.4	104.4	150.8	220.2	299.5	371.5	420.9	447.6	458.5
110°	60.3	68.8	82.5	105.6	146.4	206.3	279.1	348.7	404.7	443.0	464.3



TEST NUMBER: P332272-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	65.6	73.9	86.6	108.1	143.9	197.0	261.2	326.1	383.2	426.2	453.6
115°	73.6	81.9	93.4	111.9	143.0	187.1	239.8	296.0	349.0	393.7	426.9
117.5°	81.6	89.2	100.7	117.2	143.5	181.2	226.8	274.3	320.0	360.2	393.8
120°	86.7	94.3	105.3	121.1	144.6	178.6	220.0	262.9	303.9	340.4	371.2
122.5°	91.4	99.4	110.1	124.8	146.2	176.9	214.4	253.9	291.0	324.9	353.4
125°	98.2	106.5	117.2	130.5	148.8	174.6	207.2	241.9	275.1	304.3	328.6
127.5°	104.7	113.0	123.2	135.3	151.7	173.6	200.9	231.4	261.0	287.3	309.5
130°	108.7	116.8	126.9	138.4	153.7	172.8	197.4	224.8	252.3	276.9	297.6
132.5°	112.3	120.3	130.0	141.4	155.2	172.5	194.3	218.8	243.9	266.9	286.6
135°	117.2	125.4	134.7	145.2	157.3	172.2	190.2	210.5	232.1	251.9	269.2
137.5°	121.4	129.0	138.1	147.9	158.8	171.5	186.6	203.0	220.8	237.8	252.9
140°	123.8	131.5	140.3	149.4	159.7	171.3	184.3	198.7	214.2	228.8	241.9
142.5°	126.3	133.4	142.0	150.8	160.5	170.8	182.4	194.6	207.8	220.5	231.9
145°	129.3	136.3	144.2	152.4	160.9	170.0	179.8	189.6	199.6	209.3	218.2
147.5°	132.9	138.8	146.0	153.4	160.9	168.9	177.3	185.5	193.5	201.3	207.6
150°	134.7	140.3	147.2	153.7	160.9	168.0	175.6	182.5	189.6	196.0	201.7
152.5°	136.7	142.0	148.0	154.1	160.2	166.8	173.6	179.9	185.9	191.6	196.4
155°	140.0	144.2	149.4	154.3	159.5	164.6	170.7	175.9	180.7	185.3	188.9
157.5°	142.8	146.0	150.2	154.5	158.4	162.7	167.4	171.6	175.6	179.2	182.1
160°	144.2	147.2	150.9	154.5	157.9	161.3	165.2	169.2	172.5	175.6	177.7
162.5°	145.4	148.0	151.2	154.3	157.0	159.8	163.0	166.3	169.1	171.9	173.8
165°	147.0	149.1	151.5	153.7	155.5	157.6	160.1	162.5	164.3	166.4	168.0
167.5°	148.4	149.7	151.4	153.2	154.0	155.4	157.2	159.2	160.6	161.8	162.9
170°	149.1	149.7	151.2	152.4	153.1	153.9	155.5	157.0	157.9	159.1	159.7
172.5°	149.6	149.9	151.2	152.2	152.3	152.7	153.8	155.1	155.8	156.7	157.0
175°	150.0	150.3	150.9	151.5	151.2	151.2	151.8	152.4	152.7	153.3	153.3
177.5°	150.3	150.3	150.6	151.0	150.6	150.3	150.6	150.8	151.0	151.3	151.3
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-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°	11.5	11.0	11.0	11.3	11.0	11.0	11.5	11.0	10.8	10.8	10.5
90°	8.5	8.8	9.1	8.8	9.1	8.8	8.5	8.8	8.2	7.9	7.6
92.5°	15.8	14.9	15.2	14.6	15.2	14.9	15.8	16.4	17.9	20.3	25.7
95°	41.4	38.7	36.5	35.3	36.5	38.7	41.4	47.2	58.1	74.2	109.5
97.5°	120.6	106.9	98.7	96.1	98.7	106.9	120.6	143.1	179.4	218.7	273.0
100°	224.5	202.3	190.5	190.8	190.5	202.3	224.5	255.3	298.5	334.1	358.7
102.5°	314.4	296.8	286.9	279.8	286.9	296.8	314.4	338.3	365.7	386.4	387.2
105°	409.8	398.3	388.6	387.0	388.6	398.3	409.8	423.9	431.7	425.9	395.5
107.5°	458.7	454.8	451.5	448.8	451.5	454.8	458.7	458.5	447.6	420.9	371.5
110°	472.9	475.3	474.7	474.1	474.7	475.3	472.9	464.3	443.0	404.7	348.7



TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	469.2	476.7	479.1	479.1	479.1	476.7	469.2	453.6	426.2	383.2	326.1
115°	449.7	463.0	469.2	470.7	469.2	463.0	449.7	426.9	393.7	349.0	296.0
117.5°	417.7	433.0	441.7	443.8	441.7	433.0	417.7	393.8	360.2	320.0	274.3
120°	395.2	412.2	419.6	421.4	419.6	412.2	395.2	371.2	340.4	303.9	262.9
122.5°	374.8	390.1	398.1	400.5	398.1	390.1	374.8	353.4	324.9	291.0	253.9
125°	348.1	361.4	369.1	371.2	369.1	361.4	348.1	328.6	304.3	275.1	241.9
127.5°	326.8	338.3	345.2	347.1	345.2	338.3	326.8	309.5	287.3	261.0	231.4
130°	313.7	324.7	331.1	333.5	331.1	324.7	313.7	297.6	276.9	252.3	224.8
132.5°	301.8	312.7	318.4	320.1	318.4	312.7	301.8	286.6	266.9	243.9	218.8
135°	284.2	293.3	298.8	300.9	298.8	293.3	284.2	269.2	251.9	232.1	210.5
137.5°	265.4	274.7	279.2	280.7	279.2	274.7	265.4	252.9	237.8	220.8	203.0
140°	253.5	262.0	266.8	266.6	266.8	262.0	253.5	241.9	228.8	214.2	198.7
142.5°	241.8	249.3	253.7	253.4	253.7	249.3	241.8	231.9	220.5	207.8	194.6
145°	225.8	232.1	234.6	235.2	234.6	232.1	225.8	218.2	209.3	199.6	189.6
147.5°	213.4	217.7	220.0	220.2	220.0	217.7	213.4	207.6	201.3	193.5	185.5
150°	206.3	209.7	211.5	211.5	211.5	209.7	206.3	201.7	196.0	189.6	182.5
152.5°	199.9	203.0	204.1	204.1	204.1	203.0	199.9	196.4	191.6	185.9	179.9
155°	191.7	194.2	194.8	195.0	194.8	194.2	191.7	188.9	185.3	180.7	175.9
157.5°	184.4	186.2	186.8	186.7	186.8	186.2	184.4	182.1	179.2	175.6	171.6
160°	179.8	181.7	181.7	181.3	181.7	181.7	179.8	177.7	175.6	172.5	169.2
162.5°	175.2	176.8	176.8	176.5	176.8	176.8	175.2	173.8	171.9	169.1	166.3
165°	169.2	170.4	170.0	170.0	170.0	170.4	169.2	168.0	166.4	164.3	162.5
167.5°	163.4	164.3	164.0	164.0	164.0	164.3	163.4	162.9	161.8	160.6	159.2
170°	160.1	160.7	160.3	160.3	160.3	160.7	160.1	159.7	159.1	157.9	157.0
172.5°	157.1	157.7	157.2	157.0	157.2	157.7	157.1	157.0	156.7	155.8	155.1
175°	153.3	153.7	153.3	153.1	153.3	153.7	153.3	153.3	153.3	152.7	152.4
177.5°	151.0	151.3	150.8	150.8	150.8	151.3	151.0	151.3	151.3	151.0	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-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°	10.4	10.2	10.3	9.9	9.4	9.0	8.1	8.2	8.0	9.0	8.5
90°	7.3	7.6	6.7	5.8	4.9	4.0	3.4	2.8	1.8	1.2	0.6
92.5°	35.3	46.8	51.5	38.7	25.6	17.6	13.1	10.5	8.2	5.6	3.8
95°	146.4	180.5	160.7	110.7	65.4	39.5	27.7	19.8	14.6	11.3	10.3
97.5°	299.1	279.7	204.7	121.5	70.4	45.7	32.9	25.1	20.6	17.9	17.7
100°	348.1	288.2	194.8	114.7	69.7	48.4	36.5	29.2	25.0	22.8	22.6
102.5°	350.5	272.3	180.1	108.8	70.7	51.6	40.6	34.1	30.0	28.2	27.6
105°	331.9	244.6	162.2	104.7	73.4	56.9	47.4	41.7	38.1	36.2	35.3
107.5°	299.5	220.2	150.8	104.4	78.4	63.9	55.1	49.7	46.1	44.3	43.5
110°	279.1	206.3	146.4	105.6	82.5	68.8	60.3	55.1	51.7	50.2	49.2



TEST NUMBER: P332272-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	261.2	197.0	143.9	108.1	86.6	73.9	65.6	60.4	57.1	55.5	54.7
115°	239.8	187.1	143.0	111.9	93.4	81.9	73.6	68.4	65.4	63.6	62.3
117.5°	226.8	181.2	143.5	117.2	100.7	89.2	81.6	75.9	73.0	71.5	70.1
120°	220.0	178.6	144.6	121.1	105.3	94.3	86.7	80.9	77.9	76.4	75.4
122.5°	214.4	176.9	146.2	124.8	110.1	99.4	91.4	85.8	82.5	81.0	80.1
125°	207.2	174.6	148.8	130.5	117.2	106.5	98.2	92.5	89.1	87.3	86.7
127.5°	200.9	173.6	151.7	135.3	123.2	113.0	104.7	98.3	95.0	92.6	91.8
130°	197.4	172.8	153.7	138.4	126.9	116.8	108.7	102.2	98.6	95.8	95.0
132.5°	194.3	172.5	155.2	141.4	130.0	120.3	112.3	105.9	101.5	98.5	97.4
135°	190.2	172.2	157.3	145.2	134.7	125.4	117.2	110.7	106.2	102.8	101.6
137.5°	186.6	171.5	158.8	147.9	138.1	129.0	121.4	115.0	110.2	106.9	105.6
140°	184.3	171.3	159.7	149.4	140.3	131.5	123.8	117.8	112.9	109.9	108.3
142.5°	182.4	170.8	160.5	150.8	142.0	133.4	126.3	120.2	115.8	112.5	111.2
145°	179.8	170.0	160.9	152.4	144.2	136.3	129.3	124.2	119.6	116.8	115.9
147.5°	177.3	168.9	160.9	153.4	146.0	138.8	132.9	127.9	123.9	121.2	120.7
150°	175.6	168.0	160.9	153.7	147.2	140.3	134.7	130.5	126.6	124.2	123.8
152.5°	173.6	166.8	160.2	154.1	148.0	142.0	136.7	132.9	129.5	127.1	127.0
155°	170.7	164.6	159.5	154.3	149.4	144.2	140.0	136.6	133.5	131.7	131.7
157.5°	167.4	162.7	158.4	154.5	150.2	146.0	142.8	139.9	137.2	135.8	135.5
160°	165.2	161.3	157.9	154.5	150.9	147.2	144.2	142.1	139.7	138.4	138.4
162.5°	163.0	159.8	157.0	154.3	151.2	148.0	145.4	143.5	141.6	140.6	140.6
165°	160.1	157.6	155.5	153.7	151.5	149.1	147.0	145.8	144.2	143.6	143.9
167.5°	157.2	155.4	154.0	153.2	151.4	149.7	148.4	147.5	146.4	146.0	146.4
170°	155.5	153.9	153.1	152.4	151.2	149.7	149.1	148.4	147.6	147.2	147.8
172.5°	153.8	152.7	152.3	152.2	151.2	149.9	149.6	149.2	148.5	148.4	148.9
175°	151.8	151.2	151.2	151.5	150.9	150.3	150.0	150.0	149.4	149.7	150.0
177.5°	150.6	150.3	150.6	151.0	150.6	150.3	150.3	150.3	150.1	150.3	150.6
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-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°	7.4	5.9	5.9	5.2	5.3	4.9	5.3	5.0	5.0	5.2	4.6
90°	1.2	1.8	2.8	3.4	4.0	4.9	5.8	6.7	7.6	7.3	7.6
92.5°	5.6	8.2	10.5	13.1	17.6	25.6	38.7	51.5	46.8	35.3	25.7
95°	11.3	14.6	19.8	27.7	39.5	65.4	110.7	160.7	180.5	146.4	109.5
97.5°	17.9	20.6	25.1	32.9	45.7	70.4	121.5	204.7	279.7	299.1	273.0
100°	22.8	25.0	29.2	36.5	48.4	69.7	114.7	194.8	288.2	348.1	358.7
102.5°	28.2	30.0	34.1	40.6	51.6	70.7	108.8	180.1	272.3	350.5	387.2
105°	36.2	38.1	41.7	47.4	56.9	73.4	104.7	162.2	244.6	331.9	395.5
107.5°	44.3	46.1	49.7	55.1	63.9	78.4	104.4	150.8	220.2	299.5	371.5
110°	50.2	51.7	55.1	60.3	68.8	82.5	105.6	146.4	206.3	279.1	348.7





TEST NUMBER: P332272-935

CATALOG NUMBER: S123RDIP-S560D365U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.5	57.1	60.4	65.6	73.9	86.6	108.1	143.9	197.0	261.2	326.1
115°	63.6	65.4	68.4	73.6	81.9	93.4	111.9	143.0	187.1	239.8	296.0
117.5°	71.5	73.0	75.9	81.6	89.2	100.7	117.2	143.5	181.2	226.8	274.3
120°	76.4	77.9	80.9	86.7	94.3	105.3	121.1	144.6	178.6	220.0	262.9
122.5°	81.0	82.5	85.8	91.4	99.4	110.1	124.8	146.2	176.9	214.4	253.9
125°	87.3	89.1	92.5	98.2	106.5	117.2	130.5	148.8	174.6	207.2	241.9
127.5°	92.6	95.0	98.3	104.7	113.0	123.2	135.3	151.7	173.6	200.9	231.4
130°	95.8	98.6	102.2	108.7	116.8	126.9	138.4	153.7	172.8	197.4	224.8
132.5°	98.5	101.5	105.9	112.3	120.3	130.0	141.4	155.2	172.5	194.3	218.8
135°	102.8	106.2	110.7	117.2	125.4	134.7	145.2	157.3	172.2	190.2	210.5
137.5°	106.9	110.2	115.0	121.4	129.0	138.1	147.9	158.8	171.5	186.6	203.0
140°	109.9	112.9	117.8	123.8	131.5	140.3	149.4	159.7	171.3	184.3	198.7
142.5°	112.5	115.8	120.2	126.3	133.4	142.0	150.8	160.5	170.8	182.4	194.6
145°	116.8	119.6	124.2	129.3	136.3	144.2	152.4	160.9	170.0	179.8	189.6
147.5°	121.2	123.9	127.9	132.9	138.8	146.0	153.4	160.9	168.9	177.3	185.5
150°	124.2	126.6	130.5	134.7	140.3	147.2	153.7	160.9	168.0	175.6	182.5
152.5°	127.1	129.5	132.9	136.7	142.0	148.0	154.1	160.2	166.8	173.6	179.9
155°	131.7	133.5	136.6	140.0	144.2	149.4	154.3	159.5	164.6	170.7	175.9
157.5°	135.8	137.2	139.9	142.8	146.0	150.2	154.5	158.4	162.7	167.4	171.6
160°	138.4	139.7	142.1	144.2	147.2	150.9	154.5	157.9	161.3	165.2	169.2
162.5°	140.6	141.6	143.5	145.4	148.0	151.2	154.3	157.0	159.8	163.0	166.3
165°	143.6	144.2	145.8	147.0	149.1	151.5	153.7	155.5	157.6	160.1	162.5
167.5°	146.0	146.4	147.5	148.4	149.7	151.4	153.2	154.0	155.4	157.2	159.2
170°	147.2	147.6	148.4	149.1	149.7	151.2	152.4	153.1	153.9	155.5	157.0
172.5°	148.4	148.5	149.2	149.6	149.9	151.2	152.2	152.3	152.7	153.8	155.1
175°	149.7	149.4	150.0	150.0	150.3	150.9	151.5	151.2	151.2	151.8	152.4
177.5°	150.3	150.1	150.3	150.3	150.3	150.6	151.0	150.6	150.3	150.6	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3	150.3



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**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°	4.7	4.8	4.6	4.6	4.4	5.0	4.4
90°	7.9	8.2	8.8	8.5	8.8	9.1	8.8
92.5°	20.3	17.9	16.4	15.8	14.9	15.2	14.6
95°	74.2	58.1	47.2	41.4	38.7	36.5	35.3
97.5°	218.7	179.4	143.1	120.6	106.9	98.7	96.1
100°	334.1	298.5	255.3	224.5	202.3	190.5	190.8
102.5°	386.4	365.7	338.3	314.4	296.8	286.9	279.8
105°	425.9	431.7	423.9	409.8	398.3	388.6	387.0
107.5°	420.9	447.6	458.5	458.7	454.8	451.5	448.8
110°	404.7	443.0	464.3	472.9	475.3	474.7	474.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	383.2	426.2	453.6	469.2	476.7	479.1	479.1
115°	349.0	393.7	426.9	449.7	463.0	469.2	470.7
117.5°	320.0	360.2	393.8	417.7	433.0	441.7	443.8
120°	303.9	340.4	371.2	395.2	412.2	419.6	421.4
122.5°	291.0	324.9	353.4	374.8	390.1	398.1	400.5
125°	275.1	304.3	328.6	348.1	361.4	369.1	371.2
127.5°	261.0	287.3	309.5	326.8	338.3	345.2	347.1
130°	252.3	276.9	297.6	313.7	324.7	331.1	333.5
132.5°	243.9	266.9	286.6	301.8	312.7	318.4	320.1
135°	232.1	251.9	269.2	284.2	293.3	298.8	300.9
137.5°	220.8	237.8	252.9	265.4	274.7	279.2	280.7
140°	214.2	228.8	241.9	253.5	262.0	266.8	266.6
142.5°	207.8	220.5	231.9	241.8	249.3	253.7	253.4
145°	199.6	209.3	218.2	225.8	232.1	234.6	235.2
147.5°	193.5	201.3	207.6	213.4	217.7	220.0	220.2
150°	189.6	196.0	201.7	206.3	209.7	211.5	211.5
152.5°	185.9	191.6	196.4	199.9	203.0	204.1	204.1
155°	180.7	185.3	188.9	191.7	194.2	194.8	195.0
157.5°	175.6	179.2	182.1	184.4	186.2	186.8	186.7
160°	172.5	175.6	177.7	179.8	181.7	181.7	181.3
162.5°	169.1	171.9	173.8	175.2	176.8	176.8	176.5
165°	164.3	166.4	168.0	169.2	170.4	170.0	170.0
167.5°	160.6	161.8	162.9	163.4	164.3	164.0	164.0
170°	157.9	159.1	159.7	160.1	160.7	160.3	160.3
172.5°	155.8	156.7	157.0	157.1	157.7	157.2	157.0
175°	152.7	153.3	153.3	153.3	153.7	153.3	153.1
177.5°	151.0	151.3	151.3	151.0	151.3	150.8	150.8
180°	150.3	150.3	150.3	150.3	150.3	150.3	150.3

(END OF REPORT)