

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: P332276-930

Luminaire Tested: **S123RDIP-S560D585U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332276-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D585U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3726.8 lumens
Efficiency: N/A
Efficacy: 113.6 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: General Diffuse

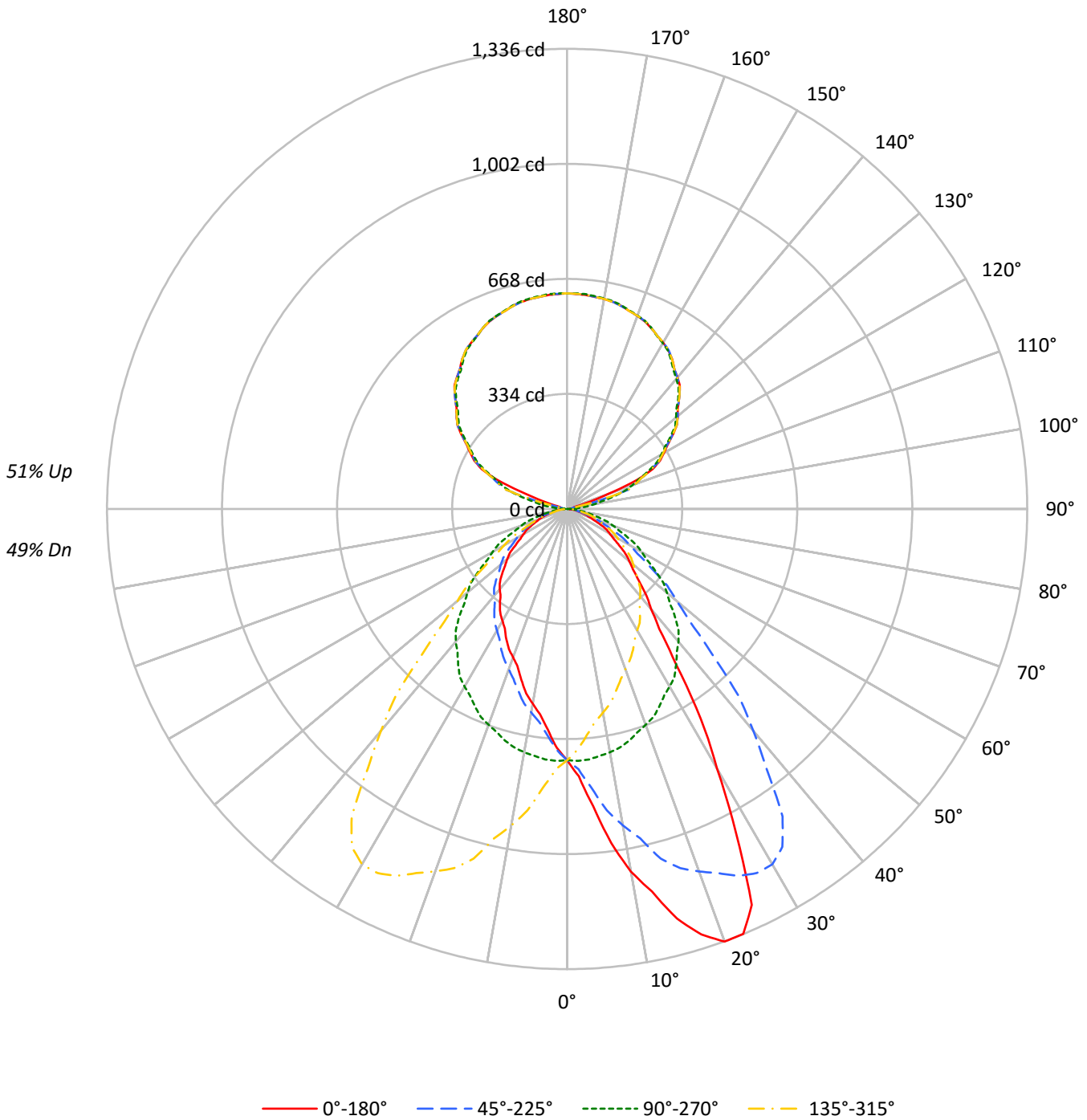
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	87	90	87	84	81	73	71	69	61	59	58	49	48	48	42
2	90	83	77	72	83	77	71	67	65	61	58	54	52	49	44	42	41	36
3	82	73	66	61	76	68	62	57	58	53	49	48	45	42	40	37	35	31
4	75	65	58	52	69	60	54	49	52	47	43	43	40	37	36	33	31	27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24	21
7	59	48	40	34	55	44	37	33	38	33	29	33	28	25	27	24	22	19
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	40	32	27	48	37	30	26	32	27	23	28	23	21	23	20	18	16
10	48	36	29	25	44	34	28	23	30	25	21	26	21	19	22	19	16	14

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	1.9
10°-20°	224.1	6.0
20°-30°	352.1	9.4
30°-40°	367.3	9.9
40°-50°	314.4	8.4
50°-60°	239.6	6.4
60°-70°	153.6	4.1
70°-80°	73.9	2.0
80°-90°	21.3	0.6
90°-100°	22.8	0.6
100°-110°	108.4	2.9
110°-120°	260.5	7.0
120°-130°	331.7	8.9
130°-140°	354.4	9.5
140°-150°	331.4	8.9
150°-160°	267.4	7.2
160°-170°	172.6	4.6
170°-180°	59.5	1.6
0°-30°	647.9	17.4
0°-40°	1015.3	27.2
0°-60°	1569.3	42.1
0°-90°	1818.0	48.8
90°-120°	391.7	10.5
90°-150°	1409.3	37.8
90°-180°	1909.0	51.2
0°-180°	3726.8	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°	14	0	14	0	14	7
95°	18	28	18	28	18	15
105°	20	139	20	139	20	47
115°	274	260	274	260	274	253
125°	374	366	374	366	374	334
135°	461	456	461	456	461	355
145°	532	526	532	526	532	332
155°	579	580	579	580	579	267
165°	610	612	610	612	610	172
175°	624	626	624	626	624	59
180°	626	626	626	626	626	



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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°	5.3	5.7	5.2	5.4	5.4	5.5	5.5	5.4	5.8	5.5	5.5
90°	13.9	13.8	13.5	13.4	13.1	12.8	12.4	12.0	11.6	11.2	9.8
92.5°	15.4	15.3	15.2	15.1	14.9	14.5	13.9	13.2	12.6	11.9	10.9
95°	17.7	17.7	17.7	17.7	17.7	17.3	16.6	15.9	15.2	14.4	13.3
97.5°	19.2	19.1	18.9	18.8	18.8	18.3	17.4	16.6	15.8	15.0	22.4
100°	19.6	19.4	19.3	19.2	19.1	18.7	17.9	17.0	16.1	15.3	31.5
102.5°	19.9	19.7	19.6	19.3	19.2	20.4	22.9	25.4	28.0	30.6	48.2
105°	20.5	20.2	20.1	19.8	19.6	28.7	47.0	65.2	83.6	101.8	111.1
107.5°	64.2	78.0	91.8	105.6	119.4	133.0	146.4	159.8	173.3	186.6	185.2
110°	127.8	142.7	157.4	172.2	186.9	196.1	199.5	202.9	206.3	209.7	208.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.4	222.5	225.6	228.8	231.9	233.4	233.3	233.3	233.3	233.2	232.0
115°	273.5	273.0	272.6	272.1	271.7	271.1	270.0	269.0	268.0	266.9	266.0
117.5°	303.8	303.7	303.6	303.5	303.5	303.0	302.1	301.3	300.5	299.6	299.2
120°	324.6	324.6	324.6	324.6	324.6	324.2	323.3	322.5	321.7	320.8	320.6
122.5°	345.0	345.0	344.9	344.8	344.7	344.4	343.8	343.2	342.7	342.1	341.7
125°	373.9	373.7	373.5	373.2	373.1	372.8	372.6	372.4	372.2	372.0	371.6
127.5°	401.6	401.8	402.0	402.2	402.4	402.4	402.0	401.7	401.4	401.0	400.6
130°	419.5	419.6	419.9	420.0	420.3	420.1	419.7	419.3	418.9	418.5	418.1
132.5°	435.8	436.1	436.3	436.7	437.0	436.9	436.5	436.1	435.7	435.3	434.9
135°	460.8	461.1	461.5	461.8	462.0	462.0	461.8	461.5	461.1	460.8	460.4
137.5°	484.4	484.5	484.8	484.9	485.2	485.0	484.5	484.0	483.6	483.1	482.8
140°	498.5	498.7	498.9	499.1	499.3	499.2	498.8	498.4	498.0	497.6	497.3
142.5°	511.5	511.8	512.1	512.4	512.7	512.7	512.3	512.0	511.7	511.4	511.0
145°	531.5	531.5	531.5	531.5	531.5	531.4	531.2	531.0	530.8	530.6	530.4
147.5°	546.4	546.9	547.3	547.8	548.3	548.5	548.2	548.0	547.8	547.6	547.4
150°	557.6	557.8	558.2	558.5	558.8	558.8	558.6	558.4	558.2	558.0	557.8
152.5°	566.5	567.0	567.4	567.9	568.3	568.4	568.0	567.7	567.3	567.0	566.8
155°	578.9	579.6	580.2	580.8	581.4	581.5	581.0	580.4	579.9	579.4	579.3
157.5°	589.5	590.3	591.1	591.8	592.6	592.8	592.2	591.5	590.9	590.3	590.4
160°	596.1	596.9	597.6	598.3	599.0	599.1	598.4	597.9	597.2	596.6	596.7
162.5°	602.5	603.1	603.7	604.4	605.0	605.0	604.3	603.6	602.9	602.2	602.3
165°	610.1	610.8	611.6	612.3	613.0	612.9	612.1	611.3	610.5	609.6	609.8
167.5°	615.6	616.4	617.3	618.1	618.9	618.9	618.1	617.3	616.4	615.6	615.6
170°	618.9	619.8	620.6	621.4	622.2	622.2	621.4	620.6	619.8	618.9	618.9
172.5°	620.8	621.7	622.6	623.5	624.4	624.4	623.6	622.8	622.0	621.2	621.1
175°	623.5	624.4	625.3	626.1	626.9	627.0	626.2	625.5	624.8	624.0	623.9
177.5°	624.4	625.3	626.1	626.9	627.7	627.8	627.1	626.5	625.8	625.2	625.1
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



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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°	5.7	5.1	5.4	5.1	5.7	5.8	7.0	8.1	8.6	7.7	8.0
90°	8.5	7.1	5.8	4.6	3.6	2.5	1.5	0.5	1.5	2.5	3.6
92.5°	9.9	8.9	7.8	7.5	7.7	8.1	8.4	8.6	8.4	8.1	7.7
95°	12.1	11.0	9.9	11.4	15.7	19.9	24.1	28.4	24.1	19.9	15.7
97.5°	29.8	37.3	44.8	49.4	51.3	53.2	55.1	57.0	55.1	53.2	51.3
100°	47.6	63.7	79.8	86.8	84.8	82.8	80.6	78.6	80.6	82.8	84.8
102.5°	65.8	83.4	101.0	109.1	107.6	106.2	104.6	103.1	104.6	106.2	107.6
105°	120.4	129.7	139.0	143.1	141.9	140.9	139.7	138.6	139.7	140.9	141.9
107.5°	183.7	182.2	180.8	179.6	178.7	177.8	176.8	175.9	176.8	177.8	178.7
110°	207.4	206.3	205.2	204.2	203.3	202.5	201.7	200.9	201.7	202.5	203.3



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	230.9	229.8	228.6	227.6	226.9	226.2	225.4	224.7	225.4	226.2	226.9
115°	265.1	264.2	263.2	262.4	261.8	261.1	260.6	259.9	260.6	261.1	261.8
117.5°	298.7	298.2	297.7	297.1	296.4	295.6	294.8	294.1	294.8	295.6	296.4
120°	320.2	319.9	319.6	319.0	318.0	317.2	316.2	315.3	316.2	317.2	318.0
122.5°	341.3	340.9	340.5	339.9	339.2	338.3	337.6	336.9	337.6	338.3	339.2
125°	371.2	370.8	370.4	369.7	368.9	368.1	367.3	366.4	367.3	368.1	368.9
127.5°	400.1	399.5	399.0	398.4	397.5	396.7	395.9	395.1	395.9	396.7	397.5
130°	417.7	417.3	416.9	416.2	415.4	414.6	413.8	412.9	413.8	414.6	415.4
132.5°	434.6	434.2	433.9	433.3	432.5	431.7	430.9	430.1	430.9	431.7	432.5
135°	460.0	459.6	459.2	458.7	458.0	457.4	456.8	456.2	456.8	457.4	458.0
137.5°	482.6	482.3	482.2	481.6	480.9	480.0	479.3	478.5	479.3	480.0	480.9
140°	496.9	496.6	496.4	495.9	495.2	494.6	494.0	493.3	494.0	494.6	495.2
142.5°	510.7	510.4	510.1	509.6	509.0	508.4	507.8	507.1	507.8	508.4	509.0
145°	530.2	529.9	529.8	529.3	528.6	527.8	527.1	526.4	527.1	527.8	528.6
147.5°	547.1	547.0	546.7	546.4	545.9	545.5	545.0	544.5	545.0	545.5	545.9
150°	557.6	557.4	557.2	556.9	556.6	556.3	556.0	555.7	556.0	556.3	556.6
152.5°	566.7	566.6	566.5	566.3	566.1	566.0	565.9	565.7	565.9	566.0	566.1
155°	579.2	579.1	579.0	579.0	579.3	579.4	579.7	579.8	579.7	579.4	579.3
157.5°	590.5	590.6	590.7	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
160°	596.8	596.9	597.0	597.1	597.2	597.4	597.5	597.5	597.5	597.4	597.2
162.5°	602.4	602.5	602.6	602.8	603.1	603.3	603.6	603.9	603.6	603.3	603.1
165°	609.8	609.9	610.0	610.3	610.6	610.9	611.1	611.5	611.1	610.9	610.6
167.5°	615.6	615.6	615.6	615.8	616.2	616.6	617.0	617.4	617.0	616.6	616.2
170°	618.9	618.9	618.9	619.1	619.5	620.0	620.4	620.8	620.4	620.0	619.5
172.5°	621.0	620.9	620.9	621.0	621.5	622.0	622.6	623.1	622.6	622.0	621.5
175°	623.9	623.7	623.6	623.9	624.4	624.8	625.4	625.9	625.4	624.8	624.4
177.5°	625.0	624.9	624.8	625.0	625.4	625.8	626.2	626.6	626.2	625.8	625.4
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

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°	7.9	8.9	9.5	9.9	10.4	10.4	10.8	10.9	11.3	11.3	11.3
90°	4.6	5.8	7.1	8.5	9.8	11.2	11.6	12.0	12.4	12.8	13.1
92.5°	7.5	7.8	8.9	9.9	10.9	11.9	12.6	13.2	13.9	14.5	14.9
95°	11.4	9.9	11.0	12.1	13.3	14.4	15.2	15.9	16.6	17.3	17.7
97.5°	49.4	44.8	37.3	29.8	22.4	15.0	15.8	16.6	17.4	18.3	18.8
100°	86.8	79.8	63.7	47.6	31.5	15.3	16.1	17.0	17.9	18.7	19.1
102.5°	109.1	101.0	83.4	65.8	48.2	30.6	28.0	25.4	22.9	20.4	19.2
105°	143.1	139.0	129.7	120.4	111.1	101.8	83.6	65.2	47.0	28.7	19.6
107.5°	179.6	180.8	182.2	183.7	185.2	186.6	173.3	159.8	146.4	133.0	119.4
110°	204.2	205.2	206.3	207.4	208.6	209.7	206.3	202.9	199.5	196.1	186.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	227.6	228.6	229.8	230.9	232.0	233.2	233.3	233.3	233.3	233.4	231.9
115°	262.4	263.2	264.2	265.1	266.0	266.9	268.0	269.0	270.0	271.1	271.7
117.5°	297.1	297.7	298.2	298.7	299.2	299.6	300.5	301.3	302.1	303.0	303.5
120°	319.0	319.6	319.9	320.2	320.6	320.8	321.7	322.5	323.3	324.2	324.6
122.5°	339.9	340.5	340.9	341.3	341.7	342.1	342.7	343.2	343.8	344.4	344.7
125°	369.7	370.4	370.8	371.2	371.6	372.0	372.2	372.4	372.6	372.8	373.1
127.5°	398.4	399.0	399.5	400.1	400.6	401.0	401.4	401.7	402.0	402.4	402.4
130°	416.2	416.9	417.3	417.7	418.1	418.5	418.9	419.3	419.7	420.1	420.3
132.5°	433.3	433.9	434.2	434.6	434.9	435.3	435.7	436.1	436.5	436.9	437.0
135°	458.7	459.2	459.6	460.0	460.4	460.8	461.1	461.5	461.8	462.0	462.0
137.5°	481.6	482.2	482.3	482.6	482.8	483.1	483.6	484.0	484.5	485.0	485.2
140°	495.9	496.4	496.6	496.9	497.3	497.6	498.0	498.4	498.8	499.2	499.3
142.5°	509.6	510.1	510.4	510.7	511.0	511.4	511.7	512.0	512.3	512.7	512.7
145°	529.3	529.8	529.9	530.2	530.4	530.6	530.8	531.0	531.2	531.4	531.5
147.5°	546.4	546.7	547.0	547.1	547.4	547.6	547.8	548.0	548.2	548.5	548.3
150°	556.9	557.2	557.4	557.6	557.8	558.0	558.2	558.4	558.6	558.8	558.8
152.5°	566.3	566.5	566.6	566.7	566.8	567.0	567.3	567.7	568.0	568.4	568.3
155°	579.0	579.0	579.1	579.2	579.3	579.4	579.9	580.4	581.0	581.5	581.4
157.5°	590.8	590.7	590.6	590.5	590.4	590.3	590.9	591.5	592.2	592.8	592.6
160°	597.1	597.0	596.9	596.8	596.7	596.6	597.2	597.9	598.4	599.1	599.0
162.5°	602.8	602.6	602.5	602.4	602.3	602.2	602.9	603.6	604.3	605.0	605.0
165°	610.3	610.0	609.9	609.8	609.8	609.6	610.5	611.3	612.1	612.9	613.0
167.5°	615.8	615.6	615.6	615.6	615.6	615.6	616.4	617.3	618.1	618.9	618.9
170°	619.1	618.9	618.9	618.9	618.9	618.9	619.8	620.6	621.4	622.2	622.2
172.5°	621.0	620.9	620.9	621.0	621.1	621.2	622.0	622.8	623.6	624.4	624.4
175°	623.9	623.6	623.7	623.9	623.9	624.0	624.8	625.5	626.2	627.0	626.9
177.5°	625.0	624.8	624.9	625.0	625.1	625.2	625.8	626.5	627.1	627.8	627.7
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

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°	11.9	11.4	11.5	11.8	11.5	11.4	11.9	11.3	11.3	11.3	10.9
90°	13.4	13.5	13.8	13.9	13.8	13.5	13.4	13.1	12.8	12.4	12.0
92.5°	15.1	15.2	15.3	15.4	15.3	15.2	15.1	14.9	14.5	13.9	13.2
95°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.3	16.6	15.9
97.5°	18.8	18.9	19.1	19.2	19.1	18.9	18.8	18.8	18.3	17.4	16.6
100°	19.2	19.3	19.4	19.6	19.4	19.3	19.2	19.1	18.7	17.9	17.0
102.5°	19.3	19.6	19.7	19.9	19.7	19.6	19.3	19.2	20.4	22.9	25.4
105°	19.8	20.1	20.2	20.5	20.2	20.1	19.8	19.6	28.7	47.0	65.2
107.5°	105.6	91.8	78.0	64.2	78.0	91.8	105.6	119.4	133.0	146.4	159.8
110°	172.2	157.4	142.7	127.8	142.7	157.4	172.2	186.9	196.1	199.5	202.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	228.8	225.6	222.5	219.4	222.5	225.6	228.8	231.9	233.4	233.3	233.3
115°	272.1	272.6	273.0	273.5	273.0	272.6	272.1	271.7	271.1	270.0	269.0
117.5°	303.5	303.6	303.7	303.8	303.7	303.6	303.5	303.5	303.0	302.1	301.3
120°	324.6	324.6	324.6	324.6	324.6	324.6	324.6	324.6	324.2	323.3	322.5
122.5°	344.8	344.9	345.0	345.0	345.0	344.9	344.8	344.7	344.4	343.8	343.2
125°	373.2	373.5	373.7	373.9	373.7	373.5	373.2	373.1	372.8	372.6	372.4
127.5°	402.2	402.0	401.8	401.6	401.8	402.0	402.2	402.4	402.4	402.0	401.7
130°	420.0	419.9	419.6	419.5	419.6	419.9	420.0	420.3	420.1	419.7	419.3
132.5°	436.7	436.3	436.1	435.8	436.1	436.3	436.7	437.0	436.9	436.5	436.1
135°	461.8	461.5	461.1	460.8	461.1	461.5	461.8	462.0	462.0	461.8	461.5
137.5°	484.9	484.8	484.5	484.4	484.5	484.8	484.9	485.2	485.0	484.5	484.0
140°	499.1	498.9	498.7	498.5	498.7	498.9	499.1	499.3	499.2	498.8	498.4
142.5°	512.4	512.1	511.8	511.5	511.8	512.1	512.4	512.7	512.7	512.3	512.0
145°	531.5	531.5	531.5	531.5	531.5	531.5	531.5	531.5	531.4	531.2	531.0
147.5°	547.8	547.3	546.9	546.4	546.9	547.3	547.8	548.3	548.5	548.2	548.0
150°	558.5	558.2	557.8	557.6	557.8	558.2	558.5	558.8	558.8	558.6	558.4
152.5°	567.9	567.4	567.0	566.5	567.0	567.4	567.9	568.3	568.4	568.0	567.7
155°	580.8	580.2	579.6	578.9	579.6	580.2	580.8	581.4	581.5	581.0	580.4
157.5°	591.8	591.1	590.3	589.5	590.3	591.1	591.8	592.6	592.8	592.2	591.5
160°	598.3	597.6	596.9	596.1	596.9	597.6	598.3	599.0	599.1	598.4	597.9
162.5°	604.4	603.7	603.1	602.5	603.1	603.7	604.4	605.0	605.0	604.3	603.6
165°	612.3	611.6	610.8	610.1	610.8	611.6	612.3	613.0	612.9	612.1	611.3
167.5°	618.1	617.3	616.4	615.6	616.4	617.3	618.1	618.9	618.9	618.1	617.3
170°	621.4	620.6	619.8	618.9	619.8	620.6	621.4	622.2	622.2	621.4	620.6
172.5°	623.5	622.6	621.7	620.8	621.7	622.6	623.5	624.4	624.4	623.6	622.8
175°	626.1	625.3	624.4	623.5	624.4	625.3	626.1	626.9	627.0	626.2	625.5
177.5°	626.9	626.1	625.3	624.4	625.3	626.1	626.9	627.7	627.8	627.1	626.5
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

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°	10.8	10.4	10.4	9.9	9.5	8.9	7.9	8.0	7.7	8.6	8.1
90°	11.6	11.2	9.8	8.5	7.1	5.8	4.6	3.6	2.5	1.5	0.5
92.5°	12.6	11.9	10.9	9.9	8.9	7.8	7.5	7.7	8.1	8.4	8.6
95°	15.2	14.4	13.3	12.1	11.0	9.9	11.4	15.7	19.9	24.1	28.4
97.5°	15.8	15.0	22.4	29.8	37.3	44.8	49.4	51.3	53.2	55.1	57.0
100°	16.1	15.3	31.5	47.6	63.7	79.8	86.8	84.8	82.8	80.6	78.6
102.5°	28.0	30.6	48.2	65.8	83.4	101.0	109.1	107.6	106.2	104.6	103.1
105°	83.6	101.8	111.1	120.4	129.7	139.0	143.1	141.9	140.9	139.7	138.6
107.5°	173.3	186.6	185.2	183.7	182.2	180.8	179.6	178.7	177.8	176.8	175.9
110°	206.3	209.7	208.6	207.4	206.3	205.2	204.2	203.3	202.5	201.7	200.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	233.3	233.2	232.0	230.9	229.8	228.6	227.6	226.9	226.2	225.4	224.7
115°	268.0	266.9	266.0	265.1	264.2	263.2	262.4	261.8	261.1	260.6	259.9
117.5°	300.5	299.6	299.2	298.7	298.2	297.7	297.1	296.4	295.6	294.8	294.1
120°	321.7	320.8	320.6	320.2	319.9	319.6	319.0	318.0	317.2	316.2	315.3
122.5°	342.7	342.1	341.7	341.3	340.9	340.5	339.9	339.2	338.3	337.6	336.9
125°	372.2	372.0	371.6	371.2	370.8	370.4	369.7	368.9	368.1	367.3	366.4
127.5°	401.4	401.0	400.6	400.1	399.5	399.0	398.4	397.5	396.7	395.9	395.1
130°	418.9	418.5	418.1	417.7	417.3	416.9	416.2	415.4	414.6	413.8	412.9
132.5°	435.7	435.3	434.9	434.6	434.2	433.9	433.3	432.5	431.7	430.9	430.1
135°	461.1	460.8	460.4	460.0	459.6	459.2	458.7	458.0	457.4	456.8	456.2
137.5°	483.6	483.1	482.8	482.6	482.3	482.2	481.6	480.9	480.0	479.3	478.5
140°	498.0	497.6	497.3	496.9	496.6	496.4	495.9	495.2	494.6	494.0	493.3
142.5°	511.7	511.4	511.0	510.7	510.4	510.1	509.6	509.0	508.4	507.8	507.1
145°	530.8	530.6	530.4	530.2	529.9	529.8	529.3	528.6	527.8	527.1	526.4
147.5°	547.8	547.6	547.4	547.1	547.0	546.7	546.4	545.9	545.5	545.0	544.5
150°	558.2	558.0	557.8	557.6	557.4	557.2	556.9	556.6	556.3	556.0	555.7
152.5°	567.3	567.0	566.8	566.7	566.6	566.5	566.3	566.1	566.0	565.9	565.7
155°	579.9	579.4	579.3	579.2	579.1	579.0	579.0	579.3	579.4	579.7	579.8
157.5°	590.9	590.3	590.4	590.5	590.6	590.7	590.8	590.8	590.8	590.8	590.8
160°	597.2	596.6	596.7	596.8	596.9	597.0	597.1	597.2	597.4	597.5	597.5
162.5°	602.9	602.2	602.3	602.4	602.5	602.6	602.8	603.1	603.3	603.6	603.9
165°	610.5	609.6	609.8	609.8	609.9	610.0	610.3	610.6	610.9	611.1	611.5
167.5°	616.4	615.6	615.6	615.6	615.6	615.6	615.8	616.2	616.6	617.0	617.4
170°	619.8	618.9	618.9	618.9	618.9	618.9	619.1	619.5	620.0	620.4	620.8
172.5°	622.0	621.2	621.1	621.0	620.9	620.9	621.0	621.5	622.0	622.6	623.1
175°	624.8	624.0	623.9	623.9	623.7	623.6	623.9	624.4	624.8	625.4	625.9
177.5°	625.8	625.2	625.1	625.0	624.9	624.8	625.0	625.4	625.8	626.2	626.6
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

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°	7.0	5.8	5.7	5.1	5.4	5.1	5.7	5.5	5.5	5.8	5.4
90°	1.5	2.5	3.6	4.6	5.8	7.1	8.5	9.8	11.2	11.6	12.0
92.5°	8.4	8.1	7.7	7.5	7.8	8.9	9.9	10.9	11.9	12.6	13.2
95°	24.1	19.9	15.7	11.4	9.9	11.0	12.1	13.3	14.4	15.2	15.9
97.5°	55.1	53.2	51.3	49.4	44.8	37.3	29.8	22.4	15.0	15.8	16.6
100°	80.6	82.8	84.8	86.8	79.8	63.7	47.6	31.5	15.3	16.1	17.0
102.5°	104.6	106.2	107.6	109.1	101.0	83.4	65.8	48.2	30.6	28.0	25.4
105°	139.7	140.9	141.9	143.1	139.0	129.7	120.4	111.1	101.8	83.6	65.2
107.5°	176.8	177.8	178.7	179.6	180.8	182.2	183.7	185.2	186.6	173.3	159.8
110°	201.7	202.5	203.3	204.2	205.2	206.3	207.4	208.6	209.7	206.3	202.9



TEST NUMBER: P332276-930

CATALOG NUMBER: S123RDIP-S560D585U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	225.4	226.2	226.9	227.6	228.6	229.8	230.9	232.0	233.2	233.3	233.3
115°	260.6	261.1	261.8	262.4	263.2	264.2	265.1	266.0	266.9	268.0	269.0
117.5°	294.8	295.6	296.4	297.1	297.7	298.2	298.7	299.2	299.6	300.5	301.3
120°	316.2	317.2	318.0	319.0	319.6	319.9	320.2	320.6	320.8	321.7	322.5
122.5°	337.6	338.3	339.2	339.9	340.5	340.9	341.3	341.7	342.1	342.7	343.2
125°	367.3	368.1	368.9	369.7	370.4	370.8	371.2	371.6	372.0	372.2	372.4
127.5°	395.9	396.7	397.5	398.4	399.0	399.5	400.1	400.6	401.0	401.4	401.7
130°	413.8	414.6	415.4	416.2	416.9	417.3	417.7	418.1	418.5	418.9	419.3
132.5°	430.9	431.7	432.5	433.3	433.9	434.2	434.6	434.9	435.3	435.7	436.1
135°	456.8	457.4	458.0	458.7	459.2	459.6	460.0	460.4	460.8	461.1	461.5
137.5°	479.3	480.0	480.9	481.6	482.2	482.3	482.6	482.8	483.1	483.6	484.0
140°	494.0	494.6	495.2	495.9	496.4	496.6	496.9	497.3	497.6	498.0	498.4
142.5°	507.8	508.4	509.0	509.6	510.1	510.4	510.7	511.0	511.4	511.7	512.0
145°	527.1	527.8	528.6	529.3	529.8	529.9	530.2	530.4	530.6	530.8	531.0
147.5°	545.0	545.5	545.9	546.4	546.7	547.0	547.1	547.4	547.6	547.8	548.0
150°	556.0	556.3	556.6	556.9	557.2	557.4	557.6	557.8	558.0	558.2	558.4
152.5°	565.9	566.0	566.1	566.3	566.5	566.6	566.7	566.8	567.0	567.3	567.7
155°	579.7	579.4	579.3	579.0	579.0	579.1	579.2	579.3	579.4	579.9	580.4
157.5°	590.8	590.8	590.8	590.8	590.7	590.6	590.5	590.4	590.3	590.9	591.5
160°	597.5	597.4	597.2	597.1	597.0	596.9	596.8	596.7	596.6	597.2	597.9
162.5°	603.6	603.3	603.1	602.8	602.6	602.5	602.4	602.3	602.2	602.9	603.6
165°	611.1	610.9	610.6	610.3	610.0	609.9	609.8	609.8	609.6	610.5	611.3
167.5°	617.0	616.6	616.2	615.8	615.6	615.6	615.6	615.6	615.6	616.4	617.3
170°	620.4	620.0	619.5	619.1	618.9	618.9	618.9	618.9	618.9	619.8	620.6
172.5°	622.6	622.0	621.5	621.0	620.9	620.9	621.0	621.1	621.2	622.0	622.8
175°	625.4	624.8	624.4	623.9	623.6	623.7	623.9	623.9	624.0	624.8	625.5
177.5°	626.2	625.8	625.4	625.0	624.8	624.9	625.0	625.1	625.2	625.8	626.5
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9



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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°	5.5	5.5	5.4	5.4	5.2	5.7	5.3
90°	12.4	12.8	13.1	13.4	13.5	13.8	13.9
92.5°	13.9	14.5	14.9	15.1	15.2	15.3	15.4
95°	16.6	17.3	17.7	17.7	17.7	17.7	17.7
97.5°	17.4	18.3	18.8	18.8	18.9	19.1	19.2
100°	17.9	18.7	19.1	19.2	19.3	19.4	19.6
102.5°	22.9	20.4	19.2	19.3	19.6	19.7	19.9
105°	47.0	28.7	19.6	19.8	20.1	20.2	20.5
107.5°	146.4	133.0	119.4	105.6	91.8	78.0	64.2
110°	199.5	196.1	186.9	172.2	157.4	142.7	127.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	233.3	233.4	231.9	228.8	225.6	222.5	219.4
115°	270.0	271.1	271.7	272.1	272.6	273.0	273.5
117.5°	302.1	303.0	303.5	303.5	303.6	303.7	303.8
120°	323.3	324.2	324.6	324.6	324.6	324.6	324.6
122.5°	343.8	344.4	344.7	344.8	344.9	345.0	345.0
125°	372.6	372.8	373.1	373.2	373.5	373.7	373.9
127.5°	402.0	402.4	402.4	402.2	402.0	401.8	401.6
130°	419.7	420.1	420.3	420.0	419.9	419.6	419.5
132.5°	436.5	436.9	437.0	436.7	436.3	436.1	435.8
135°	461.8	462.0	462.0	461.8	461.5	461.1	460.8
137.5°	484.5	485.0	485.2	484.9	484.8	484.5	484.4
140°	498.8	499.2	499.3	499.1	498.9	498.7	498.5
142.5°	512.3	512.7	512.7	512.4	512.1	511.8	511.5
145°	531.2	531.4	531.5	531.5	531.5	531.5	531.5
147.5°	548.2	548.5	548.3	547.8	547.3	546.9	546.4
150°	558.6	558.8	558.8	558.5	558.2	557.8	557.6
152.5°	568.0	568.4	568.3	567.9	567.4	567.0	566.5
155°	581.0	581.5	581.4	580.8	580.2	579.6	578.9
157.5°	592.2	592.8	592.6	591.8	591.1	590.3	589.5
160°	598.4	599.1	599.0	598.3	597.6	596.9	596.1
162.5°	604.3	605.0	605.0	604.4	603.7	603.1	602.5
165°	612.1	612.9	613.0	612.3	611.6	610.8	610.1
167.5°	618.1	618.9	618.9	618.1	617.3	616.4	615.6
170°	621.4	622.2	622.2	621.4	620.6	619.8	618.9
172.5°	623.6	624.4	624.4	623.5	622.6	621.7	620.8
175°	626.2	627.0	626.9	626.1	625.3	624.4	623.5
177.5°	627.1	627.8	627.7	626.9	626.1	625.3	624.4
180°	625.9	625.9	625.9	625.9	625.9	625.9	625.9

(END OF REPORT)