

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: P332282-930

Luminaire Tested: **S123RDIP-S560D805U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332282-930
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-S560D805U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

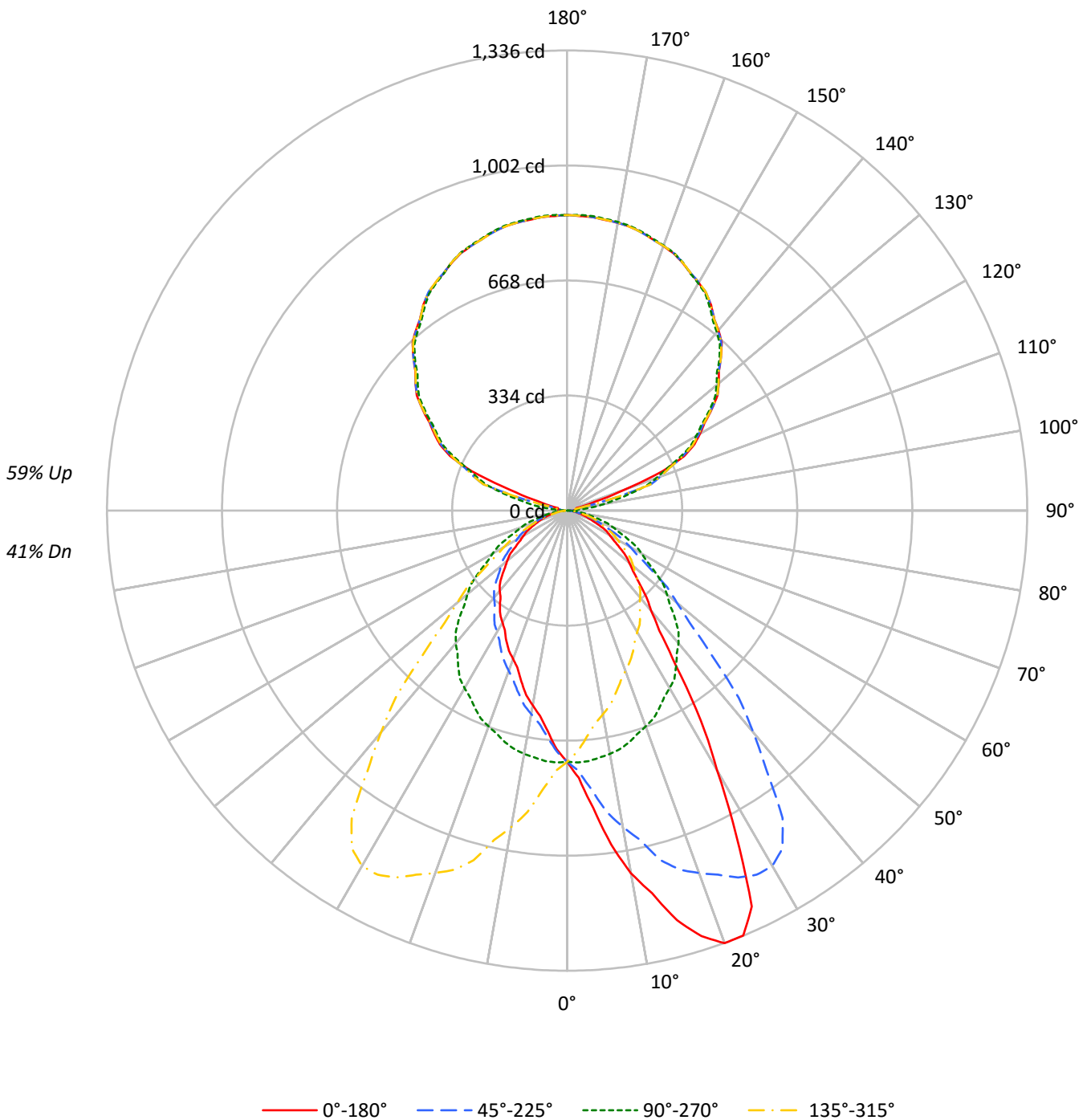
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41																				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35																				
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	36	30																				
3	81	72	65	59	73	66	60	55	54	50	47	44	41	39	34	32	31	26																				
4	74	64	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27	23																				
5	68	57	49	43	62	52	46	40	44	39	35	36	32	29	28	26	24	20																				
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21	18																				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16																				
8	54	42	35	29	49	39	32	28	33	28	24	27	23	20	22	19	17	15																				
9	50	38	31	26	46	35	29	25	30	25	22	25	21	18	20	17	15	13																				
10	47	35	28	24	43	33	26	22	28	23	19	23	19	17	19	16	14	12																				

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	1.6
10°-20°	224.1	5.1
20°-30°	352.1	7.9
30°-40°	367.3	8.3
40°-50°	314.4	7.1
50°-60°	239.6	5.4
60°-70°	153.6	3.5
70°-80°	73.9	1.7
80°-90°	22.0	0.5
90°-100°	31.2	0.7
100°-110°	148.7	3.4
110°-120°	357.1	8.1
120°-130°	454.7	10.3
130°-140°	485.8	11.0
140°-150°	454.3	10.2
150°-160°	366.5	8.3
160°-170°	236.5	5.3
170°-180°	81.5	1.8
0°-30°	647.9	14.6
0°-40°	1015.3	22.9
0°-60°	1569.3	35.4
0°-90°	1818.7	41.0
90°-120°	536.9	12.1
90°-150°	1931.8	43.6
90°-180°	2616.0	59.0
0°-180°	4435.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
90°	19	1	19	1	19	9
95°	24	39	24	39	24	20
105°	28	190	28	190	28	64
115°	375	356	375	356	375	346
125°	512	502	512	502	512	458
135°	632	625	632	625	632	487
145°	729	722	729	722	729	455
155°	794	795	794	795	794	366
165°	836	838	836	838	836	236
175°	855	858	855	858	855	81
180°	858	858	858	858	858	



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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°	6.4	6.8	6.2	6.4	6.4	6.5	6.4	6.3	6.7	6.3	6.2
90°	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5	15.9	15.3	13.5
92.5°	21.2	21.0	20.8	20.6	20.5	20.0	19.0	18.1	17.2	16.3	14.9
95°	24.2	24.2	24.2	24.2	24.2	23.7	22.7	21.8	20.8	19.7	18.2
97.5°	26.3	26.1	26.0	25.8	25.7	25.0	23.9	22.8	21.7	20.5	30.7
100°	26.7	26.7	26.5	26.3	26.2	25.6	24.5	23.3	22.2	21.0	43.1
102.5°	27.3	27.0	26.7	26.5	26.3	27.9	31.4	34.9	38.4	41.9	66.0
105°	28.0	27.8	27.5	27.2	26.9	39.3	64.4	89.4	114.5	139.6	152.3
107.5°	88.1	107.0	125.9	144.8	163.6	182.3	200.7	219.1	237.5	255.8	253.8
110°	175.3	195.5	215.8	236.0	256.3	268.8	273.5	278.1	282.8	287.5	285.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.8	305.0	309.2	313.6	317.8	319.9	319.8	319.8	319.7	319.6	318.0
115°	374.8	374.2	373.7	373.1	372.5	371.5	370.1	368.7	367.3	365.9	364.6
117.5°	416.4	416.2	416.1	416.0	415.9	415.2	414.2	413.0	411.9	410.7	410.1
120°	444.9	444.9	444.9	444.9	444.9	444.3	443.2	442.1	440.9	439.8	439.4
122.5°	473.0	472.9	472.7	472.6	472.5	472.1	471.2	470.4	469.7	468.9	468.3
125°	512.5	512.2	511.9	511.6	511.4	511.0	510.8	510.5	510.2	509.9	509.3
127.5°	550.5	550.7	551.1	551.3	551.5	551.5	551.1	550.6	550.2	549.7	549.0
130°	574.9	575.2	575.5	575.8	576.1	575.9	575.4	574.8	574.2	573.6	573.1
132.5°	597.4	597.8	598.2	598.6	598.9	598.8	598.3	597.7	597.2	596.6	596.1
135°	631.7	632.1	632.5	632.9	633.3	633.3	632.9	632.5	632.1	631.7	631.1
137.5°	663.9	664.2	664.5	664.8	665.0	664.9	664.1	663.5	662.8	662.1	661.8
140°	683.3	683.5	683.9	684.1	684.4	684.3	683.7	683.1	682.6	682.0	681.6
142.5°	701.2	701.6	701.9	702.3	702.7	702.7	702.2	701.8	701.3	700.9	700.4
145°	728.6	728.6	728.6	728.6	728.6	728.4	728.1	727.8	727.6	727.2	727.0
147.5°	748.9	749.6	750.2	750.9	751.5	751.7	751.5	751.1	750.9	750.6	750.3
150°	764.3	764.7	765.1	765.5	766.0	766.0	765.7	765.4	765.2	764.9	764.6
152.5°	776.5	777.1	777.8	778.4	779.1	779.2	778.6	778.1	777.6	777.1	777.0
155°	793.5	794.4	795.2	796.1	797.0	797.0	796.3	795.7	794.9	794.2	794.0
157.5°	808.0	809.1	810.2	811.3	812.4	812.5	811.6	810.8	810.0	809.1	809.3
160°	817.2	818.2	819.1	820.1	821.1	821.2	820.4	819.5	818.6	817.7	817.9
162.5°	825.8	826.7	827.5	828.4	829.3	829.2	828.3	827.4	826.4	825.4	825.6
165°	836.3	837.2	838.2	839.3	840.2	840.2	839.0	837.9	836.7	835.6	835.8
167.5°	843.8	844.9	846.0	847.2	848.3	848.3	847.2	846.0	844.9	843.8	843.8
170°	848.4	849.5	850.6	851.7	852.9	852.9	851.7	850.6	849.5	848.4	848.4
172.5°	850.9	852.2	853.5	854.7	855.9	856.0	854.8	853.7	852.6	851.4	851.3
175°	854.8	855.9	857.0	858.2	859.2	859.3	858.3	857.4	856.4	855.4	855.2
177.5°	855.9	857.0	858.2	859.3	860.5	860.5	859.7	858.8	857.9	856.9	856.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



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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°	6.4	5.7	5.9	5.5	6.0	6.0	7.2	8.2	8.6	7.9	8.2
90°	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7	2.0	3.5	4.9
92.5°	13.5	12.1	10.8	10.3	10.7	11.1	11.5	11.8	11.5	11.1	10.7
95°	16.6	15.1	13.5	15.7	21.4	27.2	33.1	38.9	33.1	27.2	21.4
97.5°	40.9	51.1	61.3	67.8	70.4	73.0	75.6	78.1	75.6	73.0	70.4
100°	65.2	87.3	109.4	119.0	116.2	113.4	110.6	107.7	110.6	113.4	116.2
102.5°	90.2	114.4	138.5	149.5	147.5	145.4	143.4	141.4	143.4	145.4	147.5
105°	165.1	177.8	190.6	196.2	194.6	193.1	191.5	190.0	191.5	193.1	194.6
107.5°	251.8	249.8	247.8	246.1	244.9	243.7	242.5	241.2	242.5	243.7	244.9
110°	284.4	282.8	281.2	279.9	278.8	277.6	276.5	275.3	276.5	277.6	278.8



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	316.5	315.0	313.3	312.1	311.0	310.1	309.0	308.0	309.0	310.1	311.0
115°	363.3	362.1	360.8	359.7	358.9	358.0	357.2	356.3	357.2	358.0	358.9
117.5°	409.4	408.8	408.1	407.2	406.3	405.2	404.1	403.1	404.1	405.2	406.3
120°	439.0	438.5	438.1	437.2	435.9	434.7	433.4	432.2	433.4	434.7	435.9
122.5°	467.8	467.2	466.7	465.9	464.9	463.8	462.8	461.7	462.8	463.8	464.9
125°	508.7	508.3	507.7	506.8	505.6	504.5	503.4	502.3	503.4	504.5	505.6
127.5°	548.4	547.6	547.0	546.1	544.9	543.8	542.7	541.5	542.7	543.8	544.9
130°	572.5	571.9	571.4	570.5	569.4	568.3	567.1	566.0	567.1	568.3	569.4
132.5°	595.7	595.3	594.8	594.0	592.9	591.7	590.6	589.5	590.6	591.7	592.9
135°	630.6	630.0	629.4	628.7	627.9	627.0	626.1	625.3	626.1	627.0	627.9
137.5°	661.5	661.2	660.9	660.1	659.1	658.0	657.0	655.9	657.0	658.0	659.1
140°	681.2	680.8	680.3	679.7	678.8	678.0	677.1	676.3	677.1	678.0	678.8
142.5°	700.0	699.6	699.2	698.5	697.7	696.8	696.0	695.1	696.0	696.8	697.7
145°	726.7	726.4	726.1	725.5	724.5	723.5	722.5	721.5	722.5	723.5	724.5
147.5°	750.0	749.7	749.5	749.0	748.4	747.7	747.1	746.4	747.1	747.7	748.4
150°	764.3	764.0	763.8	763.4	763.0	762.5	762.1	761.7	762.1	762.5	763.0
152.5°	776.7	776.6	776.4	776.2	776.1	775.8	775.7	775.4	775.7	775.8	776.1
155°	793.9	793.8	793.6	793.7	794.0	794.3	794.6	794.8	794.6	794.3	794.0
157.5°	809.4	809.5	809.7	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
160°	818.1	818.2	818.3	818.5	818.6	818.8	818.9	819.0	818.9	818.8	818.6
162.5°	825.7	825.8	826.0	826.2	826.6	827.0	827.4	827.7	827.4	827.0	826.6
165°	835.9	836.1	836.2	836.5	836.9	837.3	837.7	838.2	837.7	837.3	836.9
167.5°	843.8	843.8	843.8	844.1	844.7	845.2	845.8	846.4	845.8	845.2	844.7
170°	848.4	848.4	848.4	848.6	849.2	849.8	850.4	850.9	850.4	849.8	849.2
172.5°	851.2	851.1	851.0	851.3	851.9	852.6	853.3	853.9	853.3	852.6	851.9
175°	855.1	854.9	854.8	855.1	855.8	856.6	857.2	857.9	857.2	856.6	855.8
177.5°	856.7	856.6	856.5	856.7	857.3	857.9	858.4	858.9	858.4	857.9	857.3
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-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°	8.2	9.3	9.9	10.6	11.2	11.3	11.7	11.7	12.1	12.2	12.3
90°	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5	17.0	17.5	18.0
92.5°	10.3	10.8	12.1	13.5	14.9	16.3	17.2	18.1	19.0	20.0	20.5
95°	15.7	13.5	15.1	16.6	18.2	19.7	20.8	21.8	22.7	23.7	24.2
97.5°	67.8	61.3	51.1	40.9	30.7	20.5	21.7	22.8	23.9	25.0	25.7
100°	119.0	109.4	87.3	65.2	43.1	21.0	22.2	23.3	24.5	25.6	26.2
102.5°	149.5	138.5	114.4	90.2	66.0	41.9	38.4	34.9	31.4	27.9	26.3
105°	196.2	190.6	177.8	165.1	152.3	139.6	114.5	89.4	64.4	39.3	26.9
107.5°	246.1	247.8	249.8	251.8	253.8	255.8	237.5	219.1	200.7	182.3	163.6
110°	279.9	281.2	282.8	284.4	285.9	287.5	282.8	278.1	273.5	268.8	256.3



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	312.1	313.3	315.0	316.5	318.0	319.6	319.7	319.8	319.8	319.9	317.8
115°	359.7	360.8	362.1	363.3	364.6	365.9	367.3	368.7	370.1	371.5	372.5
117.5°	407.2	408.1	408.8	409.4	410.1	410.7	411.9	413.0	414.2	415.2	415.9
120°	437.2	438.1	438.5	439.0	439.4	439.8	440.9	442.1	443.2	444.3	444.9
122.5°	465.9	466.7	467.2	467.8	468.3	468.9	469.7	470.4	471.2	472.1	472.5
125°	506.8	507.7	508.3	508.7	509.3	509.9	510.2	510.5	510.8	511.0	511.4
127.5°	546.1	547.0	547.6	548.4	549.0	549.7	550.2	550.6	551.1	551.5	551.5
130°	570.5	571.4	571.9	572.5	573.1	573.6	574.2	574.8	575.4	575.9	576.1
132.5°	594.0	594.8	595.3	595.7	596.1	596.6	597.2	597.7	598.3	598.8	598.9
135°	628.7	629.4	630.0	630.6	631.1	631.7	632.1	632.5	632.9	633.3	633.3
137.5°	660.1	660.9	661.2	661.5	661.8	662.1	662.8	663.5	664.1	664.9	665.0
140°	679.7	680.3	680.8	681.2	681.6	682.0	682.6	683.1	683.7	684.3	684.4
142.5°	698.5	699.2	699.6	700.0	700.4	700.9	701.3	701.8	702.2	702.7	702.7
145°	725.5	726.1	726.4	726.7	727.0	727.2	727.6	727.8	728.1	728.4	728.6
147.5°	749.0	749.5	749.7	750.0	750.3	750.6	750.9	751.1	751.5	751.7	751.5
150°	763.4	763.8	764.0	764.3	764.6	764.9	765.2	765.4	765.7	766.0	766.0
152.5°	776.2	776.4	776.6	776.7	777.0	777.1	777.6	778.1	778.6	779.2	779.1
155°	793.7	793.6	793.8	793.9	794.0	794.2	794.9	795.7	796.3	797.0	797.0
157.5°	809.8	809.7	809.5	809.4	809.3	809.1	810.0	810.8	811.6	812.5	812.4
160°	818.5	818.3	818.2	818.1	817.9	817.7	818.6	819.5	820.4	821.2	821.1
162.5°	826.2	826.0	825.8	825.7	825.6	825.4	826.4	827.4	828.3	829.2	829.3
165°	836.5	836.2	836.1	835.9	835.8	835.6	836.7	837.9	839.0	840.2	840.2
167.5°	844.1	843.8	843.8	843.8	843.8	843.8	844.9	846.0	847.2	848.3	848.3
170°	848.6	848.4	848.4	848.4	848.4	848.4	849.5	850.6	851.7	852.9	852.9
172.5°	851.3	851.0	851.1	851.2	851.3	851.4	852.6	853.7	854.8	856.0	855.9
175°	855.1	854.8	854.9	855.1	855.2	855.4	856.4	857.4	858.3	859.3	859.2
177.5°	856.7	856.5	856.6	856.7	856.8	856.9	857.9	858.8	859.7	860.5	860.5
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-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°	12.9	12.5	12.5	12.8	12.5	12.5	12.9	12.3	12.2	12.1	11.7
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5
92.5°	20.6	20.8	21.0	21.2	21.0	20.8	20.6	20.5	20.0	19.0	18.1
95°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	23.7	22.7	21.8
97.5°	25.8	26.0	26.1	26.3	26.1	26.0	25.8	25.7	25.0	23.9	22.8
100°	26.3	26.5	26.7	26.7	26.7	26.5	26.3	26.2	25.6	24.5	23.3
102.5°	26.5	26.7	27.0	27.3	27.0	26.7	26.5	26.3	27.9	31.4	34.9
105°	27.2	27.5	27.8	28.0	27.8	27.5	27.2	26.9	39.3	64.4	89.4
107.5°	144.8	125.9	107.0	88.1	107.0	125.9	144.8	163.6	182.3	200.7	219.1
110°	236.0	215.8	195.5	175.3	195.5	215.8	236.0	256.3	268.8	273.5	278.1



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	313.6	309.2	305.0	300.8	305.0	309.2	313.6	317.8	319.9	319.8	319.8
115°	373.1	373.7	374.2	374.8	374.2	373.7	373.1	372.5	371.5	370.1	368.7
117.5°	416.0	416.1	416.2	416.4	416.2	416.1	416.0	415.9	415.2	414.2	413.0
120°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.3	443.2	442.1
122.5°	472.6	472.7	472.9	473.0	472.9	472.7	472.6	472.5	472.1	471.2	470.4
125°	511.6	511.9	512.2	512.5	512.2	511.9	511.6	511.4	511.0	510.8	510.5
127.5°	551.3	551.1	550.7	550.5	550.7	551.1	551.3	551.5	551.5	551.1	550.6
130°	575.8	575.5	575.2	574.9	575.2	575.5	575.8	576.1	575.9	575.4	574.8
132.5°	598.6	598.2	597.8	597.4	597.8	598.2	598.6	598.9	598.8	598.3	597.7
135°	632.9	632.5	632.1	631.7	632.1	632.5	632.9	633.3	633.3	632.9	632.5
137.5°	664.8	664.5	664.2	663.9	664.2	664.5	664.8	665.0	664.9	664.1	663.5
140°	684.1	683.9	683.5	683.3	683.5	683.9	684.1	684.4	684.3	683.7	683.1
142.5°	702.3	701.9	701.6	701.2	701.6	701.9	702.3	702.7	702.7	702.2	701.8
145°	728.6	728.6	728.6	728.6	728.6	728.6	728.6	728.6	728.4	728.1	727.8
147.5°	750.9	750.2	749.6	748.9	749.6	750.2	750.9	751.5	751.7	751.5	751.1
150°	765.5	765.1	764.7	764.3	764.7	765.1	765.5	766.0	766.0	765.7	765.4
152.5°	778.4	777.8	777.1	776.5	777.1	777.8	778.4	779.1	779.2	778.6	778.1
155°	796.1	795.2	794.4	793.5	794.4	795.2	796.1	797.0	797.0	796.3	795.7
157.5°	811.3	810.2	809.1	808.0	809.1	810.2	811.3	812.4	812.5	811.6	810.8
160°	820.1	819.1	818.2	817.2	818.2	819.1	820.1	821.1	821.2	820.4	819.5
162.5°	828.4	827.5	826.7	825.8	826.7	827.5	828.4	829.3	829.2	828.3	827.4
165°	839.3	838.2	837.2	836.3	837.2	838.2	839.3	840.2	840.2	839.0	837.9
167.5°	847.2	846.0	844.9	843.8	844.9	846.0	847.2	848.3	848.3	847.2	846.0
170°	851.7	850.6	849.5	848.4	849.5	850.6	851.7	852.9	852.9	851.7	850.6
172.5°	854.7	853.5	852.2	850.9	852.2	853.5	854.7	855.9	856.0	854.8	853.7
175°	858.2	857.0	855.9	854.8	855.9	857.0	858.2	859.2	859.3	858.3	857.4
177.5°	859.3	858.2	857.0	855.9	857.0	858.2	859.3	860.5	860.5	859.7	858.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-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°	11.7	11.3	11.2	10.6	9.9	9.3	8.2	8.2	7.9	8.6	8.2
90°	15.9	15.3	13.5	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7
92.5°	17.2	16.3	14.9	13.5	12.1	10.8	10.3	10.7	11.1	11.5	11.8
95°	20.8	19.7	18.2	16.6	15.1	13.5	15.7	21.4	27.2	33.1	38.9
97.5°	21.7	20.5	30.7	40.9	51.1	61.3	67.8	70.4	73.0	75.6	78.1
100°	22.2	21.0	43.1	65.2	87.3	109.4	119.0	116.2	113.4	110.6	107.7
102.5°	38.4	41.9	66.0	90.2	114.4	138.5	149.5	147.5	145.4	143.4	141.4
105°	114.5	139.6	152.3	165.1	177.8	190.6	196.2	194.6	193.1	191.5	190.0
107.5°	237.5	255.8	253.8	251.8	249.8	247.8	246.1	244.9	243.7	242.5	241.2
110°	282.8	287.5	285.9	284.4	282.8	281.2	279.9	278.8	277.6	276.5	275.3



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	319.7	319.6	318.0	316.5	315.0	313.3	312.1	311.0	310.1	309.0	308.0
115°	367.3	365.9	364.6	363.3	362.1	360.8	359.7	358.9	358.0	357.2	356.3
117.5°	411.9	410.7	410.1	409.4	408.8	408.1	407.2	406.3	405.2	404.1	403.1
120°	440.9	439.8	439.4	439.0	438.5	438.1	437.2	435.9	434.7	433.4	432.2
122.5°	469.7	468.9	468.3	467.8	467.2	466.7	465.9	464.9	463.8	462.8	461.7
125°	510.2	509.9	509.3	508.7	508.3	507.7	506.8	505.6	504.5	503.4	502.3
127.5°	550.2	549.7	549.0	548.4	547.6	547.0	546.1	544.9	543.8	542.7	541.5
130°	574.2	573.6	573.1	572.5	571.9	571.4	570.5	569.4	568.3	567.1	566.0
132.5°	597.2	596.6	596.1	595.7	595.3	594.8	594.0	592.9	591.7	590.6	589.5
135°	632.1	631.7	631.1	630.6	630.0	629.4	628.7	627.9	627.0	626.1	625.3
137.5°	662.8	662.1	661.8	661.5	661.2	660.9	660.1	659.1	658.0	657.0	655.9
140°	682.6	682.0	681.6	681.2	680.8	680.3	679.7	678.8	678.0	677.1	676.3
142.5°	701.3	700.9	700.4	700.0	699.6	699.2	698.5	697.7	696.8	696.0	695.1
145°	727.6	727.2	727.0	726.7	726.4	726.1	725.5	724.5	723.5	722.5	721.5
147.5°	750.9	750.6	750.3	750.0	749.7	749.5	749.0	748.4	747.7	747.1	746.4
150°	765.2	764.9	764.6	764.3	764.0	763.8	763.4	763.0	762.5	762.1	761.7
152.5°	777.6	777.1	777.0	776.7	776.6	776.4	776.2	776.1	775.8	775.7	775.4
155°	794.9	794.2	794.0	793.9	793.8	793.6	793.7	794.0	794.3	794.6	794.8
157.5°	810.0	809.1	809.3	809.4	809.5	809.7	809.8	809.8	809.8	809.8	809.8
160°	818.6	817.7	817.9	818.1	818.2	818.3	818.5	818.6	818.8	818.9	819.0
162.5°	826.4	825.4	825.6	825.7	825.8	826.0	826.2	826.6	827.0	827.4	827.7
165°	836.7	835.6	835.8	835.9	836.1	836.2	836.5	836.9	837.3	837.7	838.2
167.5°	844.9	843.8	843.8	843.8	843.8	843.8	844.1	844.7	845.2	845.8	846.4
170°	849.5	848.4	848.4	848.4	848.4	848.4	848.6	849.2	849.8	850.4	850.9
172.5°	852.6	851.4	851.3	851.2	851.1	851.0	851.3	851.9	852.6	853.3	853.9
175°	856.4	855.4	855.2	855.1	854.9	854.8	855.1	855.8	856.6	857.2	857.9
177.5°	857.9	856.9	856.8	856.7	856.6	856.5	856.7	857.3	857.9	858.4	858.9
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-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°	7.2	6.0	6.0	5.5	5.9	5.7	6.4	6.2	6.3	6.7	6.3
90°	2.0	3.5	4.9	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5
92.5°	11.5	11.1	10.7	10.3	10.8	12.1	13.5	14.9	16.3	17.2	18.1
95°	33.1	27.2	21.4	15.7	13.5	15.1	16.6	18.2	19.7	20.8	21.8
97.5°	75.6	73.0	70.4	67.8	61.3	51.1	40.9	30.7	20.5	21.7	22.8
100°	110.6	113.4	116.2	119.0	109.4	87.3	65.2	43.1	21.0	22.2	23.3
102.5°	143.4	145.4	147.5	149.5	138.5	114.4	90.2	66.0	41.9	38.4	34.9
105°	191.5	193.1	194.6	196.2	190.6	177.8	165.1	152.3	139.6	114.5	89.4
107.5°	242.5	243.7	244.9	246.1	247.8	249.8	251.8	253.8	255.8	237.5	219.1
110°	276.5	277.6	278.8	279.9	281.2	282.8	284.4	285.9	287.5	282.8	278.1



TEST NUMBER: P332282-930

CATALOG NUMBER: S123RDIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	309.0	310.1	311.0	312.1	313.3	315.0	316.5	318.0	319.6	319.7	319.8
115°	357.2	358.0	358.9	359.7	360.8	362.1	363.3	364.6	365.9	367.3	368.7
117.5°	404.1	405.2	406.3	407.2	408.1	408.8	409.4	410.1	410.7	411.9	413.0
120°	433.4	434.7	435.9	437.2	438.1	438.5	439.0	439.4	439.8	440.9	442.1
122.5°	462.8	463.8	464.9	465.9	466.7	467.2	467.8	468.3	468.9	469.7	470.4
125°	503.4	504.5	505.6	506.8	507.7	508.3	508.7	509.3	509.9	510.2	510.5
127.5°	542.7	543.8	544.9	546.1	547.0	547.6	548.4	549.0	549.7	550.2	550.6
130°	567.1	568.3	569.4	570.5	571.4	571.9	572.5	573.1	573.6	574.2	574.8
132.5°	590.6	591.7	592.9	594.0	594.8	595.3	595.7	596.1	596.6	597.2	597.7
135°	626.1	627.0	627.9	628.7	629.4	630.0	630.6	631.1	631.7	632.1	632.5
137.5°	657.0	658.0	659.1	660.1	660.9	661.2	661.5	661.8	662.1	662.8	663.5
140°	677.1	678.0	678.8	679.7	680.3	680.8	681.2	681.6	682.0	682.6	683.1
142.5°	696.0	696.8	697.7	698.5	699.2	699.6	700.0	700.4	700.9	701.3	701.8
145°	722.5	723.5	724.5	725.5	726.1	726.4	726.7	727.0	727.2	727.6	727.8
147.5°	747.1	747.7	748.4	749.0	749.5	749.7	750.0	750.3	750.6	750.9	751.1
150°	762.1	762.5	763.0	763.4	763.8	764.0	764.3	764.6	764.9	765.2	765.4
152.5°	775.7	775.8	776.1	776.2	776.4	776.6	776.7	777.0	777.1	777.6	778.1
155°	794.6	794.3	794.0	793.7	793.6	793.8	793.9	794.0	794.2	794.9	795.7
157.5°	809.8	809.8	809.8	809.8	809.7	809.5	809.4	809.3	809.1	810.0	810.8
160°	818.9	818.8	818.6	818.5	818.3	818.2	818.1	817.9	817.7	818.6	819.5
162.5°	827.4	827.0	826.6	826.2	826.0	825.8	825.7	825.6	825.4	826.4	827.4
165°	837.7	837.3	836.9	836.5	836.2	836.1	835.9	835.8	835.6	836.7	837.9
167.5°	845.8	845.2	844.7	844.1	843.8	843.8	843.8	843.8	843.8	844.9	846.0
170°	850.4	849.8	849.2	848.6	848.4	848.4	848.4	848.4	848.4	849.5	850.6
172.5°	853.3	852.6	851.9	851.3	851.0	851.1	851.2	851.3	851.4	852.6	853.7
175°	857.2	856.6	855.8	855.1	854.8	854.9	855.1	855.2	855.4	856.4	857.4
177.5°	858.4	857.9	857.3	856.7	856.5	856.6	856.7	856.8	856.9	857.9	858.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



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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°	6.4	6.5	6.4	6.4	6.2	6.8	6.4
90°	17.0	17.5	18.0	18.3	18.6	18.8	19.2
92.5°	19.0	20.0	20.5	20.6	20.8	21.0	21.2
95°	22.7	23.7	24.2	24.2	24.2	24.2	24.2
97.5°	23.9	25.0	25.7	25.8	26.0	26.1	26.3
100°	24.5	25.6	26.2	26.3	26.5	26.7	26.7
102.5°	31.4	27.9	26.3	26.5	26.7	27.0	27.3
105°	64.4	39.3	26.9	27.2	27.5	27.8	28.0
107.5°	200.7	182.3	163.6	144.8	125.9	107.0	88.1
110°	273.5	268.8	256.3	236.0	215.8	195.5	175.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.8	319.9	317.8	313.6	309.2	305.0	300.8
115°	370.1	371.5	372.5	373.1	373.7	374.2	374.8
117.5°	414.2	415.2	415.9	416.0	416.1	416.2	416.4
120°	443.2	444.3	444.9	444.9	444.9	444.9	444.9
122.5°	471.2	472.1	472.5	472.6	472.7	472.9	473.0
125°	510.8	511.0	511.4	511.6	511.9	512.2	512.5
127.5°	551.1	551.5	551.5	551.3	551.1	550.7	550.5
130°	575.4	575.9	576.1	575.8	575.5	575.2	574.9
132.5°	598.3	598.8	598.9	598.6	598.2	597.8	597.4
135°	632.9	633.3	633.3	632.9	632.5	632.1	631.7
137.5°	664.1	664.9	665.0	664.8	664.5	664.2	663.9
140°	683.7	684.3	684.4	684.1	683.9	683.5	683.3
142.5°	702.2	702.7	702.7	702.3	701.9	701.6	701.2
145°	728.1	728.4	728.6	728.6	728.6	728.6	728.6
147.5°	751.5	751.7	751.5	750.9	750.2	749.6	748.9
150°	765.7	766.0	766.0	765.5	765.1	764.7	764.3
152.5°	778.6	779.2	779.1	778.4	777.8	777.1	776.5
155°	796.3	797.0	797.0	796.1	795.2	794.4	793.5
157.5°	811.6	812.5	812.4	811.3	810.2	809.1	808.0
160°	820.4	821.2	821.1	820.1	819.1	818.2	817.2
162.5°	828.3	829.2	829.3	828.4	827.5	826.7	825.8
165°	839.0	840.2	840.2	839.3	838.2	837.2	836.3
167.5°	847.2	848.3	848.3	847.2	846.0	844.9	843.8
170°	851.7	852.9	852.9	851.7	850.6	849.5	848.4
172.5°	854.8	856.0	855.9	854.7	853.5	852.2	850.9
175°	858.3	859.3	859.2	858.2	857.0	855.9	854.8
177.5°	859.7	860.5	860.5	859.3	858.2	857.0	855.9
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9

(END OF REPORT)