

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: P332419-930

Luminaire Tested: **S123RDIW-S560D1030U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332419-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1030U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

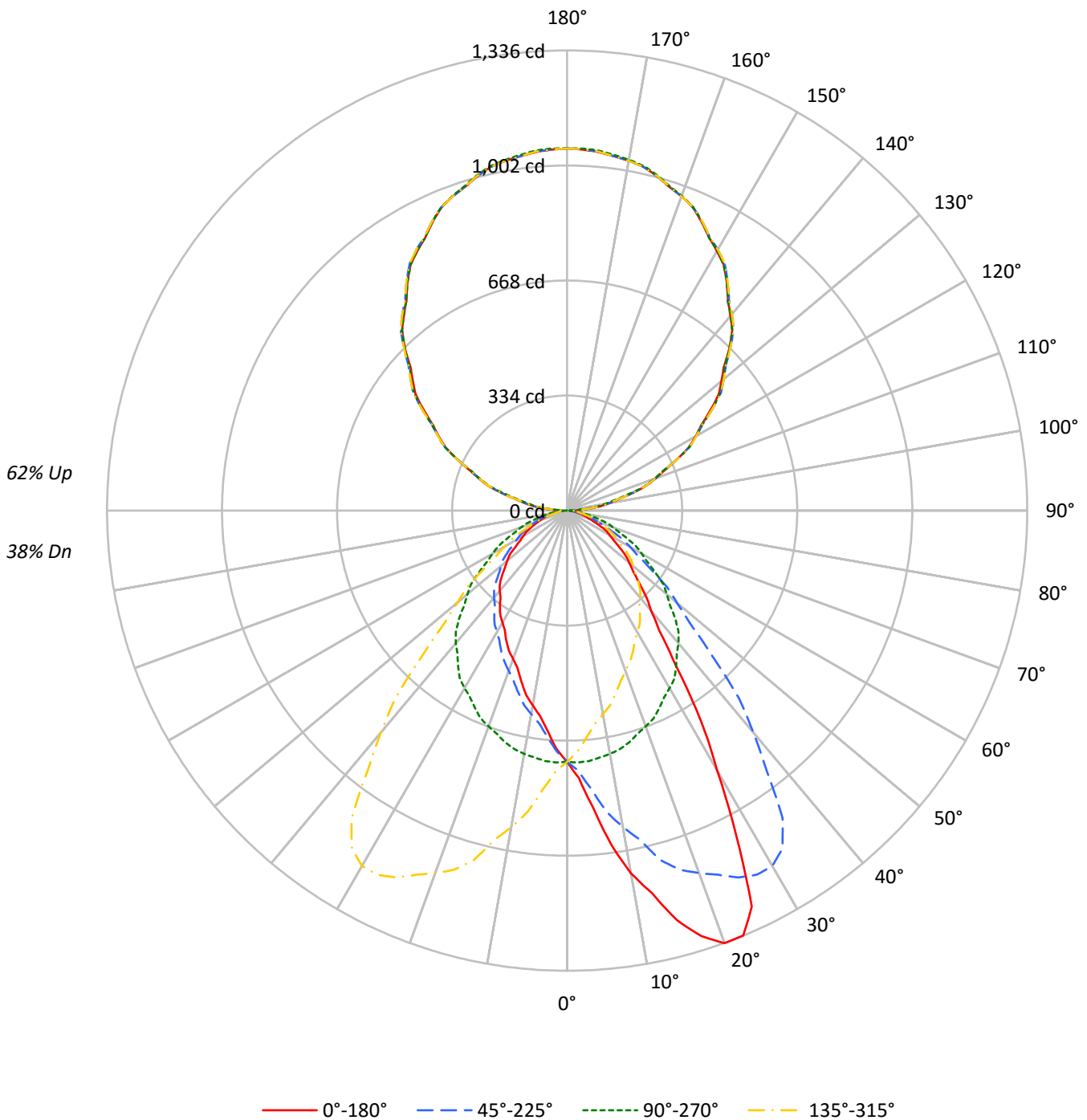
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38				
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	37	35	34	29				
3	80	71	64	59	72	65	59	54	53	49	46	43	40	37	33	31	29	25				
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22				
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19				
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	24	22	20	17				
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	22	20	18	15				
8	53	42	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14				
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	15	12				
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.5
10°-20°	224.1	4.7
20°-30°	352.1	7.4
30°-40°	367.3	7.8
40°-50°	314.4	6.6
50°-60°	239.6	5.1
60°-70°	153.6	3.2
70°-80°	73.9	1.6
80°-90°	22.7	0.5
90°-100°	68.5	1.4
100°-110°	205.0	4.3
110°-120°	348.7	7.4
120°-130°	458.7	9.7
130°-140°	515.5	10.9
140°-150°	506.8	10.7
150°-160°	426.6	9.0
160°-170°	284.0	6.0
170°-180°	99.4	2.1
0°-30°	647.9	13.7
0°-40°	1015.3	21.5
0°-60°	1569.3	33.2
0°-90°	1819.4	38.4
90°-120°	622.2	13.1
90°-150°	2103.2	44.4
90°-180°	2913.0	61.6
0°-180°	4732.7	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°	25	1	25	1	25	12
95°	64	49	64	49	64	66
105°	197	186	197	186	197	209
115°	352	351	352	351	352	348
125°	508	514	508	514	508	454
135°	666	667	666	667	666	512
145°	809	809	809	809	809	505
155°	924	926	924	926	924	426
165°	1005	1008	1005	1008	1005	284
175°	1045	1049	1045	1049	1045	99
180°	1052	1052	1052	1052	1052	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	7.4	7.9	7.3	7.5	7.4	7.6	7.4	7.3	7.6	7.2	7.0
90°	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3	20.5	19.8	17.4
92.5°	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9	32.3	31.7	30.3
95°	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6	61.9	61.1	59.7
97.5°	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3	96.5	95.6	94.6
100°	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5	122.0	121.4	120.5
102.5°	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6	151.1	150.5	149.3
105°	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9	194.9	194.9	193.3
107.5°	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9	241.2	240.7	240.0
110°	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2	272.5	271.7	271.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6	303.7	302.8	302.7
115°	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2	352.0	351.9	352.2
117.5°	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4	400.4	400.5	400.9
120°	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4	432.6	432.8	433.7
122.5°	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9	465.4	465.9	466.4
125°	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1	513.9	514.6	514.9
127.5°	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8	561.8	562.8	563.2
130°	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4	593.1	593.9	594.4
132.5°	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2	624.0	624.9	625.3
135°	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2	669.9	670.7	670.9
137.5°	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3	715.0	715.8	715.3
140°	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9	744.0	744.2	744.0
142.5°	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6	771.8	772.0	771.7
145°	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4	812.6	812.8	812.2
147.5°	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7	874.7	874.7	874.3
152.5°	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4	896.2	895.9	895.7
155°	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2	927.5	926.8	926.6
157.5°	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5	954.8	954.0	953.9
160°	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4	971.4	970.5	970.5
162.5°	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2	987.3	986.4	986.3
165°	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3	1007.1	1006.1	1006.1
167.5°	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2	1022.1
170°	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9	1030.9
172.5°	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4	1039.3	1038.1	1038.1
175°	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9	1046.8	1045.7	1045.7
177.5°	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2	1050.4	1049.5	1049.5
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	7.0	6.3	6.3	5.9	6.3	6.1	7.3	8.2	8.8	8.2	8.5
90°	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8	2.7	4.5	6.4
92.5°	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0	21.2	22.5	23.7
95°	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8	50.0	51.3	52.6
97.5°	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6	87.5	88.5	89.4
100°	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3	113.4	114.5	115.6
102.5°	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1	142.8	143.4	144.1
105°	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9	186.2	186.6	186.9
107.5°	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8	236.9	237.2	237.4
110°	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5	268.8	269.2	269.5



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5	301.7	301.9	302.1
115°	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1	351.6	352.1	352.7
117.5°	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0	401.3	401.7	402.0
120°	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0	433.1	434.2	435.3
122.5°	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4	465.2	466.0	466.8
125°	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8	514.3	514.9	515.4
127.5°	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4	560.5	561.7	562.9
130°	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8	591.3	592.7	594.2
132.5°	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1	621.6	623.1	624.6
135°	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6	667.6	668.8	669.8
137.5°	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6	710.5	711.3	712.2
140°	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2	740.2	741.1	742.0
142.5°	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4	767.3	768.2	769.1
145°	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6	809.0	809.3	809.8
147.5°	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6	846.3	846.9	847.7
150°	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4	871.8	872.1	872.5
152.5°	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6	893.1	893.6	894.1
155°	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9
157.5°	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4	954.1	953.9	953.7
160°	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2	971.8	971.4	971.1
162.5°	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1	987.6	987.0	986.5
165°	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5	1008.0	1007.5	1006.9
167.5°	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9	1024.2	1023.4	1022.7
170°	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1	1033.4	1032.7	1031.9
172.5°	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4	1040.6	1039.9	1039.2
175°	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0	1048.3	1047.6	1046.8
177.5°	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1	1051.6	1051.0	1050.4
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

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°	8.6	9.8	10.5	11.3	12.0	12.2	12.6	12.7	13.1	13.3	13.4
90°	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3	22.0	22.7	23.3
92.5°	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9	33.5	34.1	34.2
95°	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6	63.3	64.1	64.4
97.5°	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3	98.2	99.1	99.4
100°	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5	123.1	123.6	124.1
102.5°	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6	152.1	152.7	153.0
105°	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9	194.9	194.9	195.1
107.5°	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9	242.5	243.0	243.2
110°	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2	273.9	274.7	274.8



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6	305.4	306.3	306.7
115°	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2	352.5	352.6	352.6
117.5°	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4	400.3	400.3	400.0
120°	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4	432.3	432.1	431.8
122.5°	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9	464.4	464.0	463.4
125°	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1	512.4	511.7	510.9
127.5°	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8	559.8	558.7	557.7
130°	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4	591.7	590.9	590.0
132.5°	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2	622.3	621.4	620.5
135°	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2	668.5	667.7	667.2
137.5°	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3	713.5	712.7	712.0
140°	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9	743.6	743.5	742.7
142.5°	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6	771.4	771.3	770.6
145°	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4	812.2	812.0	811.5
147.5°	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7	874.7	874.7	874.2
152.5°	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4	896.7	897.1	896.7
155°	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2	929.0	929.7	929.4
157.5°	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5	956.3	957.1	957.0
160°	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4	973.3	974.2	974.3
162.5°	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2	989.1	990.1	989.9
165°	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3	1009.3	1010.5	1010.4
167.5°	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8
170°	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0
172.5°	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4	1041.5	1042.7	1042.6
175°	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9	1049.0	1050.1	1050.0
177.5°	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2	1052.1	1053.0	1053.0
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	13.9	13.5	13.6	13.9	13.6	13.5	13.9	13.4	13.3	13.1	12.7
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3
92.5°	34.0	33.8	33.6	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9
95°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6
97.5°	99.3	99.3	99.2	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3
100°	124.4	124.8	125.1	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5
102.5°	152.9	152.8	152.7	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6
105°	195.5	195.8	196.2	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9
107.5°	243.0	242.8	242.6	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9
110°	274.5	274.1	273.8	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	306.6	306.6	306.6	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6
115°	352.5	352.2	352.0	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2
117.5°	399.5	399.0	398.4	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4
120°	431.5	431.0	430.7	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4
122.5°	462.9	462.4	461.9	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9
125°	510.2	509.5	508.7	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1
127.5°	556.9	556.1	555.2	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8
130°	588.6	587.3	586.1	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4
132.5°	619.5	618.5	617.5	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2
135°	666.8	666.5	666.1	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2
137.5°	711.3	710.6	709.9	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3
140°	741.4	740.2	738.9	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9
142.5°	769.6	768.7	767.7	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6
145°	810.8	810.1	809.3	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4
147.5°	849.3	848.2	847.1	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9
150°	873.1	872.0	870.9	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7
152.5°	895.8	894.8	893.8	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4
155°	928.1	926.8	925.6	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2
157.5°	955.9	955.0	953.9	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5
160°	973.5	972.8	972.1	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4
162.5°	988.8	987.6	986.4	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2
165°	1009.1	1007.8	1006.5	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3
167.5°	1025.6	1024.5	1023.4	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5
170°	1034.7	1033.4	1032.1	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4
172.5°	1041.3	1040.0	1038.7	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4
175°	1048.7	1047.4	1046.2	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9
177.5°	1051.9	1050.9	1049.9	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	12.6	12.2	12.0	11.3	10.5	9.8	8.6	8.5	8.2	8.8	8.2
90°	20.5	19.8	17.4	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8
92.5°	32.3	31.7	30.3	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0
95°	61.9	61.1	59.7	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8
97.5°	96.5	95.6	94.6	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6
100°	122.0	121.4	120.5	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3
102.5°	151.1	150.5	149.3	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1
105°	194.9	194.9	193.3	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9
107.5°	241.2	240.7	240.0	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8
110°	272.5	271.7	271.4	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5



TEST NUMBER: P332419-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.7	302.8	302.7	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5
115°	352.0	351.9	352.2	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1
117.5°	400.4	400.5	400.9	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0
120°	432.6	432.8	433.7	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0
122.5°	465.4	465.9	466.4	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4
125°	513.9	514.6	514.9	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8
127.5°	561.8	562.8	563.2	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4
130°	593.1	593.9	594.4	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8
132.5°	624.0	624.9	625.3	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1
135°	669.9	670.7	670.9	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6
137.5°	715.0	715.8	715.3	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6
140°	744.0	744.2	744.0	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2
142.5°	771.8	772.0	771.7	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4
145°	812.6	812.8	812.2	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6
147.5°	850.9	850.9	850.4	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6
150°	874.7	874.7	874.3	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4
152.5°	896.2	895.9	895.7	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6
155°	927.5	926.8	926.6	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9
157.5°	954.8	954.0	953.9	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4
160°	971.4	970.5	970.5	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2
162.5°	987.3	986.4	986.3	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1
165°	1007.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5
167.5°	1023.4	1022.2	1022.1	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9
170°	1032.1	1030.9	1030.9	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1
172.5°	1039.3	1038.1	1038.1	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4
175°	1046.8	1045.7	1045.7	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0
177.5°	1050.4	1049.5	1049.5	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332419-930

CATALOG NUMBER: S123RDIW-S560D1030U930-4F0-1E-UDD-A1

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°	7.3	6.1	6.3	5.9	6.3	6.3	7.0	7.0	7.2	7.6	7.3
90°	2.7	4.5	6.4	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3
92.5°	21.2	22.5	23.7	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9
95°	50.0	51.3	52.6	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6
97.5°	87.5	88.5	89.4	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3
100°	113.4	114.5	115.6	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5
102.5°	142.8	143.4	144.1	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6
105°	186.2	186.6	186.9	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9
107.5°	236.9	237.2	237.4	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9
110°	268.8	269.2	269.5	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	301.7	301.9	302.1	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6
115°	351.6	352.1	352.7	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2
117.5°	401.3	401.7	402.0	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4
120°	433.1	434.2	435.3	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4
122.5°	465.2	466.0	466.8	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9
125°	514.3	514.9	515.4	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1
127.5°	560.5	561.7	562.9	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8
130°	591.3	592.7	594.2	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4
132.5°	621.6	623.1	624.6	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2
135°	667.6	668.8	669.8	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2
137.5°	710.5	711.3	712.2	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3
140°	740.2	741.1	742.0	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9
142.5°	767.3	768.2	769.1	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6
145°	809.0	809.3	809.8	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4
147.5°	846.3	846.9	847.7	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9
150°	871.8	872.1	872.5	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7
152.5°	893.1	893.6	894.1	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4
155°	925.9	925.9	925.9	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2
157.5°	954.1	953.9	953.7	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5
160°	971.8	971.4	971.1	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4
162.5°	987.6	987.0	986.5	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2
165°	1008.0	1007.5	1006.9	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3
167.5°	1024.2	1023.4	1022.7	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5
170°	1033.4	1032.7	1031.9	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4
172.5°	1040.6	1039.9	1039.2	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4
175°	1048.3	1047.6	1046.8	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9
177.5°	1051.6	1051.0	1050.4	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	7.4	7.6	7.4	7.5	7.3	7.9	7.4
90°	22.0	22.7	23.3	23.6	24.1	24.4	24.8
92.5°	33.5	34.1	34.2	34.0	33.8	33.6	33.3
95°	63.3	64.1	64.4	64.4	64.4	64.4	64.4
97.5°	98.2	99.1	99.4	99.3	99.3	99.2	99.1
100°	123.1	123.6	124.1	124.4	124.8	125.1	125.6
102.5°	152.1	152.7	153.0	152.9	152.8	152.7	152.6
105°	194.9	194.9	195.1	195.5	195.8	196.2	196.6
107.5°	242.5	243.0	243.2	243.0	242.8	242.6	242.3
110°	273.9	274.7	274.8	274.5	274.1	273.8	273.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	305.4	306.3	306.7	306.6	306.6	306.6	306.5
115°	352.5	352.6	352.6	352.5	352.2	352.0	351.9
117.5°	400.3	400.3	400.0	399.5	399.0	398.4	397.9
120°	432.3	432.1	431.8	431.5	431.0	430.7	430.3
122.5°	464.4	464.0	463.4	462.9	462.4	461.9	461.4
125°	512.4	511.7	510.9	510.2	509.5	508.7	508.0
127.5°	559.8	558.7	557.7	556.9	556.1	555.2	554.4
130°	591.7	590.9	590.0	588.6	587.3	586.1	584.8
132.5°	622.3	621.4	620.5	619.5	618.5	617.5	616.5
135°	668.5	667.7	667.2	666.8	666.5	666.1	665.8
137.5°	713.5	712.7	712.0	711.3	710.6	709.9	709.2
140°	743.6	743.5	742.7	741.4	740.2	738.9	737.6
142.5°	771.4	771.3	770.6	769.6	768.7	767.7	766.7
145°	812.2	812.0	811.5	810.8	810.1	809.3	808.6
147.5°	850.9	850.9	850.4	849.3	848.2	847.1	846.0
150°	874.7	874.7	874.2	873.1	872.0	870.9	869.8
152.5°	896.7	897.1	896.7	895.8	894.8	893.8	892.9
155°	929.0	929.7	929.4	928.1	926.8	925.6	924.3
157.5°	956.3	957.1	957.0	955.9	955.0	953.9	952.8
160°	973.3	974.2	974.3	973.5	972.8	972.1	971.3
162.5°	989.1	990.1	989.9	988.8	987.6	986.4	985.2
165°	1009.3	1010.5	1010.4	1009.1	1007.8	1006.5	1005.3
167.5°	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2
170°	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9
172.5°	1041.5	1042.7	1042.6	1041.3	1040.0	1038.7	1037.5
175°	1049.0	1050.1	1050.0	1048.7	1047.4	1046.2	1044.9
177.5°	1052.1	1053.0	1053.0	1051.9	1050.9	1049.9	1048.9
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5

(END OF REPORT)