

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: P332121-927

Luminaire Tested: **S123DIW-S560D460U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332121-927
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: S123DIW-S560D460U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

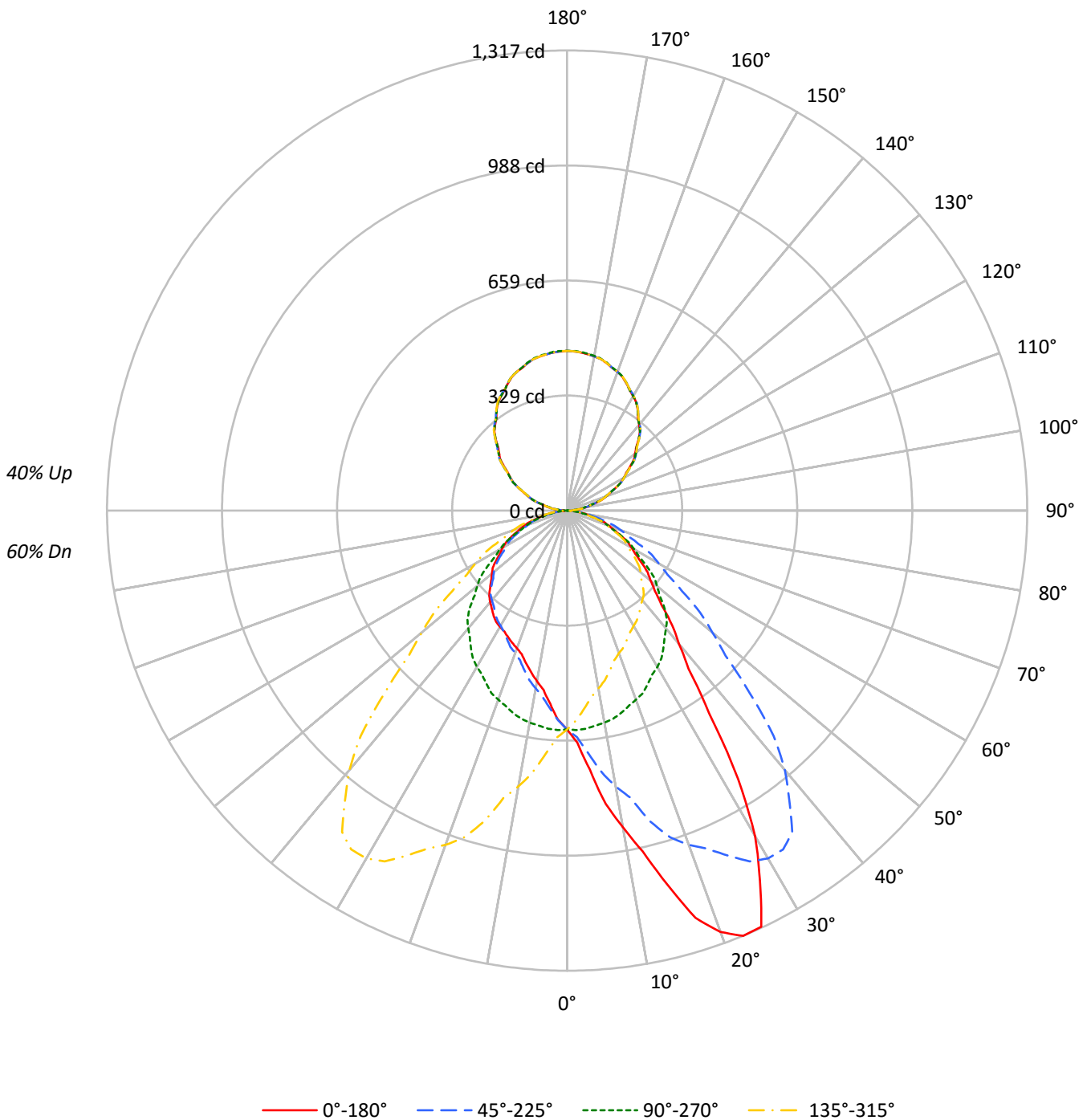
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	100	96	92	89	94	90	87	84	78	76	74	68	66	64	58	57	56	51
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	29	24	46	35	28	24	31	25	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6740	6740	6740	6740
5°	8038	6769	5999	6769
10°	10061	6735	5418	6735
15°	12340	6681	5045	6681
20°	14701	6596	4803	6596
25°	15610	6494	4749	6494
30°	13380	6418	4774	6418
35°	9305	6311	4824	6311
40°	7009	6185	4808	6185
45°	5820	5999	4748	5999
50°	5213	5620	4706	5620
55°	4874	5210	4647	5210
60°	4573	4781	4598	4781
65°	4297	4358	4452	4358
70°	4028	3877	4239	3877
75°	3606	3394	3889	3394
80°	3155	2783	3347	2783
85°	2470	2025	2248	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	2.0
10°-20°	197.8	6.3
20°-30°	332.0	10.5
30°-40°	375.9	11.9
40°-50°	337.1	10.7
50°-60°	272.0	8.6
60°-70°	189.6	6.0
70°-80°	99.6	3.2
80°-90°	25.7	0.8
90°-100°	29.8	0.9
100°-110°	89.1	2.8
110°-120°	151.6	4.8
120°-130°	199.4	6.3
130°-140°	224.1	7.1
140°-150°	220.3	7.0
150°-160°	185.4	5.9
160°-170°	123.4	3.9
170°-180°	43.2	1.4
0°-30°	591.5	18.7
0°-40°	967.4	30.6
0°-60°	1576.5	49.9
0°-90°	1891.4	59.9
90°-120°	270.4	8.6
90°-150°	914.1	28.9
90°-180°	1266.0	40.1
0°-180°	3157.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	626	626	626	626	626	
5°	744	626	555	626	744	77
15°	1107	600	453	600	1107	320
25°	1314	547	400	547	1314	576
35°	708	480	367	480	708	460
45°	382	394	312	394	382	303
55°	260	278	248	278	260	233
65°	169	171	175	171	169	168
75°	87	82	94	82	87	93
85°	20	16	18	16	20	24
90°	11	0	11	0	11	6
95°	28	21	28	21	28	29
105°	86	81	86	81	86	91
115°	153	153	153	153	153	151
125°	221	223	221	223	221	197
135°	289	290	289	290	289	222
145°	352	352	352	352	352	219
155°	402	402	402	402	402	185
165°	437	438	437	438	437	123
175°	454	456	454	456	454	43
180°	457	457	457	457	457	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	664.6	664.1	662.9	663.8	661.9	659.3	659.0	656.6	649.5	649.0	647.1
5°	743.9	741.5	741.2	740.9	736.7	730.9	719.9	719.1	704.5	697.2	688.4
7.5°	846.8	848.0	843.6	839.7	826.7	818.2	806.4	791.5	773.6	755.4	743.3
10°	920.5	930.5	918.1	909.6	901.7	886.8	869.6	848.0	826.5	801.3	782.2
12.5°	999.7	1004.6	1002.1	994.0	981.8	959.2	928.5	904.8	884.9	843.0	826.1
15°	1107.4	1125.9	1114.1	1086.8	1087.4	1065.9	1025.8	981.8	958.5	921.7	871.6
17.5°	1222.3	1224.6	1219.5	1196.7	1181.5	1152.0	1115.0	1072.9	1025.5	981.1	928.0
20°	1283.4	1281.6	1271.0	1259.1	1233.0	1210.0	1169.6	1122.6	1061.9	1018.2	960.3
22.5°	1317.4	1314.3	1309.3	1299.4	1277.7	1252.9	1216.7	1165.3	1107.6	1047.3	980.4
25°	1314.3	1318.3	1318.9	1316.1	1308.6	1293.7	1265.2	1224.2	1166.6	1089.3	1019.5
27.5°	1195.4	1200.9	1217.2	1231.6	1247.7	1264.0	1261.9	1241.5	1198.9	1132.0	1046.7
30°	1076.5	1064.3	1094.4	1132.3	1158.1	1203.6	1229.1	1230.6	1206.7	1149.3	1066.1
32.5°	911.4	924.8	938.0	984.7	1041.1	1092.2	1142.9	1183.8	1188.4	1150.2	1077.5
35°	708.1	724.8	749.1	773.4	834.1	886.2	975.4	1053.1	1115.0	1123.2	1078.6
37.5°	570.6	578.9	594.2	618.5	658.2	720.2	789.2	887.3	977.0	1043.7	1046.6
40°	498.8	501.2	518.5	537.0	569.2	620.1	682.4	769.1	876.5	969.7	1008.5
42.5°	444.9	450.3	457.6	475.4	501.0	539.3	597.1	668.9	767.3	874.5	950.5
45°	382.3	388.3	392.9	404.7	422.9	448.7	489.1	554.6	629.5	740.3	842.6
47.5°	340.9	341.4	344.8	353.7	366.1	385.5	414.0	456.1	524.9	614.7	719.7
50°	311.3	316.2	317.3	324.3	334.1	348.3	372.0	407.7	464.2	543.1	639.6
52.5°	290.4	291.8	295.2	300.3	308.8	319.9	340.4	368.4	412.7	480.0	568.7
55°	259.7	259.7	263.1	267.0	271.9	281.9	295.5	316.2	349.8	402.0	475.5
57.5°	231.3	232.8	235.2	236.4	240.5	247.2	258.6	274.3	299.4	339.5	397.9
60°	212.4	215.1	214.8	217.2	220.9	226.0	235.8	248.5	270.9	303.1	352.3
62.5°	195.9	195.7	195.7	198.5	202.2	207.1	213.4	224.4	243.5	272.0	313.9
65°	168.7	168.1	170.2	172.1	173.3	176.9	181.7	191.5	204.2	225.5	257.9
67.5°	144.6	142.8	143.9	144.6	146.6	149.5	154.0	160.0	170.2	187.2	211.7
70°	128.0	126.5	126.2	126.8	128.7	130.8	134.1	139.9	149.2	163.0	180.9
72.5°	111.1	110.0	110.0	111.3	112.2	113.5	115.9	121.2	128.7	138.9	155.6
75°	86.7	86.7	86.7	87.1	88.0	89.2	91.0	93.7	99.5	106.8	118.0
77.5°	65.0	65.0	64.6	64.6	65.9	66.5	66.9	69.4	72.6	77.6	85.7
80°	50.9	49.4	50.1	50.9	51.6	51.9	52.8	53.4	56.2	58.9	64.6
82.5°	37.9	36.6	36.7	38.1	38.3	38.5	39.5	40.3	41.4	43.8	46.9
85°	20.0	20.0	20.4	20.4	20.6	20.4	21.2	21.5	21.5	23.1	24.9
87.5°	9.4	9.0	9.1	9.3	9.0	9.3	9.4	9.6	9.8	10.0	10.0
90°	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.6
92.5°	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3	14.0	13.8	13.2
95°	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2	26.9	26.5	25.9
97.5°	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3	41.9	41.6	41.1
100°	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2	53.0	52.8	52.4
102.5°	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9	65.7	65.4	64.9
105°	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7	84.7	84.7	84.0
107.5°	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1	104.9	104.6	104.3
110°	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7	118.4	118.1	118.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4	132.0	131.6	131.6
115°	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1	153.0	153.0	153.1
117.5°	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0	174.0	174.0	174.3
120°	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0	188.1	188.1	188.5
122.5°	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1	202.2	202.5	202.7
125°	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0	223.3	223.6	223.8
127.5°	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8	244.2	244.6	244.8
130°	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5	257.8	258.1	258.3
132.5°	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8	271.2	271.6	271.8
135°	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9	291.2	291.5	291.6
137.5°	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5	310.8	311.1	310.9
140°	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3	323.4	323.4	323.4
142.5°	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3	335.4	335.5	335.4
145°	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1	353.2	353.2	353.0
147.5°	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2	380.2	380.2	380.0
152.5°	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6	389.5	389.4	389.3
155°	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5	403.1	402.8	402.7
157.5°	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3	414.9	414.6	414.5
160°	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6	422.2	421.8	421.8
162.5°	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5	429.1	428.7	428.6
165°	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2	437.8	437.3	437.3
167.5°	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3	444.8	444.3	444.3
170°	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2	448.6	448.1	448.1
172.5°	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2	451.7	451.1	451.1
175°	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4	455.0	454.5	454.5
177.5°	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9	456.5	456.1	456.1
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	645.6	643.7	641.7	638.3	635.4	631.3	630.1	628.7	624.3	620.4	617.5
5°	685.1	677.8	667.2	657.4	649.6	639.0	632.9	626.5	617.4	609.3	602.5
7.5°	726.4	712.0	695.5	677.7	661.1	645.0	632.1	620.6	607.8	595.7	586.4
10°	759.1	738.5	715.4	690.5	669.3	648.6	631.4	616.2	599.8	585.6	573.7
12.5°	796.5	765.9	734.1	703.9	678.7	650.1	629.2	609.9	591.4	574.2	560.9
15°	840.7	801.9	764.3	722.7	684.4	648.6	623.8	599.5	578.0	560.4	543.4
17.5°	881.0	837.0	787.4	736.9	690.8	648.3	613.5	586.1	559.1	537.6	520.6
20°	903.8	853.7	797.6	745.1	694.2	646.8	608.6	575.8	546.8	523.9	504.9
22.5°	923.5	864.9	806.8	750.8	694.0	642.9	599.7	565.9	534.3	512.1	491.8
25°	943.9	873.8	815.6	749.7	686.3	633.5	584.9	546.8	515.2	489.1	468.2
27.5°	961.4	873.2	804.1	733.2	674.3	621.4	569.6	528.5	495.0	466.7	445.4
30°	973.0	874.4	792.2	722.1	662.7	608.0	557.6	516.4	481.2	452.3	432.4
32.5°	980.3	873.7	781.3	706.5	644.2	595.9	544.8	502.1	465.9	437.6	418.3
35°	984.5	868.3	762.5	674.5	614.4	567.4	524.6	480.3	442.4	416.0	394.1
37.5°	976.0	857.1	740.6	643.5	577.7	531.5	495.4	457.7	421.4	392.4	373.5
40°	962.7	849.9	723.6	621.7	552.5	507.9	477.3	440.2	404.4	376.8	359.3
42.5°	937.2	835.0	705.0	597.4	526.2	481.6	453.4	422.6	388.6	362.7	345.2
45°	875.0	802.8	676.9	561.0	487.6	441.5	416.6	394.1	363.5	338.3	323.1
47.5°	788.7	754.3	636.4	522.6	447.2	402.8	376.9	358.9	336.4	316.2	301.6
50°	728.8	714.5	609.0	496.4	420.2	376.8	352.0	335.6	319.5	299.1	285.8
52.5°	659.6	668.4	576.9	469.2	392.8	350.1	326.7	313.7	299.1	282.4	270.8
55°	562.2	594.1	521.6	423.6	352.0	311.3	289.1	277.6	269.1	256.7	246.7
57.5°	471.0	511.5	461.7	376.5	311.8	276.8	255.6	243.0	237.5	231.0	223.2
60°	416.8	456.9	419.0	345.0	284.9	251.5	232.7	222.1	216.7	212.1	205.4
62.5°	368.6	409.1	377.2	312.9	258.4	227.5	211.1	200.7	196.5	194.1	188.4
65°	302.2	337.1	315.8	263.1	220.5	193.3	178.4	171.1	167.2	166.3	162.6
67.5°	246.0	272.5	257.1	218.2	184.7	161.1	148.5	142.4	139.3	139.0	136.3
70°	209.1	233.9	222.1	186.9	158.0	139.6	128.7	123.2	121.4	121.0	119.5
72.5°	180.4	197.7	188.4	159.0	136.7	119.9	111.9	106.2	104.1	104.6	103.5
75°	133.5	146.6	141.1	120.7	102.8	91.9	85.2	81.6	79.8	80.7	79.5
77.5°	96.1	104.3	99.4	85.3	74.3	66.4	61.5	59.3	57.6	57.5	57.0
80°	72.5	77.4	74.6	66.1	57.0	50.4	46.4	44.9	44.0	43.7	43.4
82.5°	51.7	55.8	52.5	46.7	40.6	36.5	34.3	32.3	31.6	31.8	31.5
85°	26.1	27.6	26.4	22.7	20.4	18.5	17.3	16.4	15.8	16.1	15.4
87.5°	10.3	10.3	9.4	8.2	7.6	6.7	6.6	5.9	5.5	5.7	5.6
90°	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4	1.2	2.0	2.8
92.5°	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7	9.3	9.7	10.3
95°	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2	21.7	22.3	22.9
97.5°	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6	38.0	38.4	38.9
100°	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8	49.3	49.7	50.2
102.5°	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7	62.0	62.3	62.6
105°	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8	81.0	81.1	81.3
107.5°	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9	103.0	103.1	103.1
110°	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7	116.8	117.0	117.2



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0	131.1	131.3	131.3
115°	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6	152.8	153.0	153.3
117.5°	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3	174.4	174.6	174.8
120°	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7	188.2	188.7	189.2
122.5°	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8	202.2	202.6	202.9
125°	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3	223.6	223.8	224.0
127.5°	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1	243.6	244.2	244.6
130°	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4	257.0	257.6	258.3
132.5°	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5	270.1	270.8	271.5
135°	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7	290.2	290.7	291.1
137.5°	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4	308.8	309.2	309.6
140°	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3	321.7	322.1	322.5
142.5°	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1	333.5	333.9	334.3
145°	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5	351.6	351.8	352.0
147.5°	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6	367.8	368.1	368.4
150°	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7	378.9	379.1	379.2
152.5°	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9	388.2	388.4	388.6
155°	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
157.5°	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8	414.7	414.6	414.5
160°	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6	422.4	422.2	422.1
162.5°	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4	429.2	429.0	428.7
165°	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3	438.1	437.8	437.6
167.5°	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4	445.1	444.8	444.5
170°	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5	449.2	448.9	448.5
172.5°	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7	452.3	452.0	451.7
175°	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9	455.6	455.3	455.0
177.5°	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3	457.0	456.8	456.5
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	615.8	614.1	611.6	608.0	605.1	600.5	600.5	601.2	601.2	600.9	600.5
5°	597.1	592.6	587.1	580.7	574.0	567.4	566.2	563.7	561.9	560.7	559.2
7.5°	577.3	569.3	561.3	552.5	544.3	537.6	532.9	529.0	526.5	523.9	521.9
10°	564.0	554.0	544.6	535.2	524.9	516.7	511.5	507.9	505.2	502.7	501.5
12.5°	548.3	536.8	526.4	517.5	506.2	497.7	492.8	491.2	487.9	482.8	480.1
15°	525.2	514.6	502.2	488.5	483.0	472.7	466.9	464.2	462.4	458.4	457.2
17.5°	505.5	491.5	477.6	467.4	457.2	448.9	445.7	442.3	439.9	436.7	435.7
20°	489.7	477.3	464.5	453.6	443.0	433.9	431.1	428.7	426.3	424.8	423.6
22.5°	473.6	461.2	450.7	440.5	429.1	423.2	420.2	417.6	415.8	414.8	413.6
25°	451.1	440.2	428.4	419.3	410.2	406.2	404.4	402.9	401.7	400.2	399.9
27.5°	431.0	419.1	409.6	401.0	394.5	391.2	389.4	388.7	389.0	389.5	389.8
30°	416.0	405.0	397.1	389.8	383.8	380.8	380.5	380.5	381.7	382.0	382.6
32.5°	402.1	393.2	385.2	378.2	373.6	371.5	372.7	372.7	373.7	374.5	375.6
35°	382.0	374.1	368.0	361.9	358.0	358.9	359.5	360.1	361.6	363.5	364.7
37.5°	362.7	355.9	349.6	344.8	343.0	344.7	346.1	347.4	349.2	350.5	351.7
40°	348.9	343.7	337.7	333.4	334.1	334.9	336.2	337.7	339.2	340.1	341.4
42.5°	336.0	330.7	326.1	322.5	323.4	324.6	325.3	326.1	327.8	329.5	330.2
45°	316.5	312.2	307.9	305.9	306.4	307.0	307.7	308.6	310.1	311.3	311.6
47.5°	294.5	291.4	288.6	286.5	287.5	287.2	288.0	290.0	290.5	291.2	292.9
50°	280.4	277.6	274.3	273.7	273.7	273.7	273.9	276.4	276.4	277.6	278.8
52.5°	264.8	263.1	260.9	259.8	259.4	259.4	260.6	261.8	262.3	264.0	265.2
55°	241.8	240.0	238.2	237.3	236.6	237.3	239.7	240.3	241.8	242.7	243.6
57.5°	217.9	216.4	215.0	214.5	214.4	215.2	216.5	218.3	218.7	221.5	222.8
60°	202.1	199.9	198.8	198.8	198.1	200.8	200.3	203.3	203.9	205.7	207.9
62.5°	185.8	182.9	182.4	182.4	183.3	184.1	185.0	186.3	187.9	190.2	191.8
65°	159.6	158.0	160.2	159.9	159.3	161.1	161.1	162.6	164.5	166.6	169.9
67.5°	134.8	134.0	134.2	134.2	135.1	136.1	137.0	138.3	140.5	142.8	144.9
70°	118.0	118.9	117.4	118.7	119.5	119.9	120.4	122.2	124.7	126.2	128.7
72.5°	101.8	101.7	101.9	102.3	103.3	103.9	104.4	106.5	109.2	110.4	112.4
75°	78.3	78.0	78.9	78.9	80.4	81.0	81.6	82.5	84.9	86.7	88.3
77.5°	57.2	57.5	57.4	58.4	58.0	58.1	60.0	60.8	61.1	64.7	65.5
80°	43.1	43.7	44.0	44.3	44.6	44.0	46.1	47.1	47.1	49.1	50.7
82.5°	31.0	31.3	32.1	32.4	32.5	33.0	33.3	33.9	34.6	35.6	37.5
85°	15.4	16.4	16.7	16.4	16.7	16.1	17.0	17.3	17.6	17.6	17.6
87.5°	5.5	6.0	5.9	6.4	6.3	6.8	6.9	6.5	6.5	7.3	6.4
90°	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3	9.6	9.9	10.1
92.5°	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3	14.6	14.8	14.9
95°	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2	27.5	27.8	28.0
97.5°	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3	42.7	43.0	43.2
100°	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2	53.5	53.7	53.9
102.5°	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9	66.1	66.4	66.5
105°	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.8
107.5°	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1	105.4	105.6	105.7
110°	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7	119.1	119.4	119.5



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4	132.8	133.2	133.3
115°	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1	153.2	153.3	153.3
117.5°	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0	174.0	174.0	173.9
120°	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0	187.9	187.8	187.7
122.5°	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1	201.8	201.6	201.5
125°	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0	222.7	222.4	222.0
127.5°	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8	243.3	242.8	242.4
130°	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5	257.1	256.8	256.4
132.5°	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8	270.5	270.1	269.7
135°	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9	290.6	290.3	290.0
137.5°	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5	310.1	309.7	309.4
140°	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3	323.2	323.1	322.8
142.5°	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3	335.3	335.2	334.9
145°	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1	353.0	352.9	352.8
147.5°	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2	380.2	380.2	379.9
152.5°	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6	389.8	389.9	389.8
155°	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5	403.8	404.1	403.9
157.5°	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3	415.7	416.0	415.9
160°	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6	423.0	423.4	423.4
162.5°	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5	429.9	430.3	430.2
165°	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2	438.7	439.2	439.1
167.5°	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3	445.8	446.2	446.2
170°	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2	449.7	450.3	450.3
172.5°	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2	452.7	453.1	453.1
175°	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4	455.9	456.4	456.4
177.5°	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9	457.3	457.6	457.6
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	598.8	598.6	600.2	599.0	600.2	598.6	598.8	600.5	600.9	601.2	601.2
5°	557.4	558.3	555.2	555.2	555.2	558.3	557.4	559.2	560.7	561.9	563.7
7.5°	520.5	519.1	519.3	517.6	519.3	519.1	520.5	521.9	523.9	526.5	529.0
10°	497.9	496.1	495.4	495.7	495.4	496.1	497.9	501.5	502.7	505.2	507.9
12.5°	479.2	478.8	474.8	474.9	474.8	478.8	479.2	480.1	482.8	487.9	491.2
15°	457.2	451.5	450.8	452.7	450.8	451.5	457.2	457.2	458.4	462.4	464.2
17.5°	435.2	432.1	432.4	431.4	432.4	432.1	435.2	435.7	436.7	439.9	442.3
20°	423.6	421.8	421.4	419.3	421.4	421.8	423.6	423.6	424.8	426.3	428.7
22.5°	412.9	412.3	412.4	410.1	412.4	412.3	412.9	413.6	414.8	415.8	417.6
25°	399.6	401.1	399.9	399.9	399.9	401.1	399.6	399.9	400.2	401.7	402.9
27.5°	390.6	390.5	389.9	389.9	389.9	390.5	390.6	389.8	389.5	389.0	388.7
30°	383.8	383.5	384.1	384.1	384.1	383.5	383.8	382.6	382.0	381.7	380.5
32.5°	377.0	377.4	377.6	377.8	377.6	377.4	377.0	375.6	374.5	373.7	372.7
35°	366.5	366.8	367.7	367.1	367.7	366.8	366.5	364.7	363.5	361.6	360.1
37.5°	352.3	353.7	353.4	353.9	353.4	353.7	352.3	351.7	350.5	349.2	347.4
40°	341.7	342.5	342.2	342.2	342.2	342.5	341.7	341.4	340.1	339.2	337.7
42.5°	330.7	331.4	330.6	330.1	330.6	331.4	330.7	330.2	329.5	327.8	326.1
45°	312.8	312.2	313.1	311.9	313.1	312.2	312.8	311.6	311.3	310.1	308.6
47.5°	292.8	293.4	293.7	294.5	293.7	293.4	292.8	292.9	291.2	290.5	290.0
50°	279.4	281.2	281.2	281.0	281.2	281.2	279.4	278.8	277.6	276.4	276.4
52.5°	266.3	267.2	268.4	268.3	268.4	267.2	266.3	265.2	264.0	262.3	261.8
55°	246.1	246.7	247.2	247.6	247.2	246.7	246.1	243.6	242.7	241.8	240.3
57.5°	225.1	224.8	226.2	226.7	226.2	224.8	225.1	222.8	221.5	218.7	218.3
60°	210.2	210.2	212.7	213.6	212.7	210.2	210.2	207.9	205.7	203.9	203.3
62.5°	194.5	195.4	197.9	196.6	197.9	195.4	194.5	191.8	190.2	187.9	186.3
65°	171.4	173.9	173.6	174.8	173.6	173.9	171.4	169.9	166.6	164.5	162.6
67.5°	147.3	148.9	151.1	151.2	151.1	148.9	147.3	144.9	142.8	140.5	138.3
70°	131.1	132.6	133.8	134.7	133.8	132.6	131.1	128.7	126.2	124.7	122.2
72.5°	115.3	116.1	119.0	117.7	119.0	116.1	115.3	112.4	110.4	109.2	106.5
75°	90.4	92.5	94.3	93.5	94.3	92.5	90.4	88.3	86.7	84.9	82.5
77.5°	66.9	69.0	69.9	69.1	69.9	69.0	66.9	65.5	64.7	61.1	60.8
80°	52.8	52.5	54.3	54.0	54.3	52.5	52.8	50.7	49.1	47.1	47.1
82.5°	38.7	38.4	39.3	39.5	39.3	38.4	38.7	37.5	35.6	34.6	33.9
85°	18.8	19.7	18.5	18.2	18.5	19.7	18.8	17.6	17.6	17.6	17.3
87.5°	6.4	6.5	6.3	6.0	6.3	6.5	6.4	6.4	7.3	6.5	6.5
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3
92.5°	14.8	14.7	14.6	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2
97.5°	43.2	43.2	43.1	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3
100°	54.1	54.3	54.4	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2
102.5°	66.5	66.4	66.4	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9
105°	85.0	85.2	85.3	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7
107.5°	105.6	105.5	105.4	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1
110°	119.3	119.1	119.0	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4
115°	153.2	153.1	153.0	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1
117.5°	173.6	173.4	173.2	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0
120°	187.5	187.4	187.2	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0
122.5°	201.2	201.0	200.7	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1
125°	221.7	221.4	221.1	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0
127.5°	242.1	241.7	241.3	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8
130°	255.9	255.3	254.8	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5
132.5°	269.3	268.8	268.4	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8
135°	289.9	289.7	289.5	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9
137.5°	309.1	308.9	308.6	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5
140°	322.3	321.7	321.2	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3
142.5°	334.5	334.1	333.7	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3
145°	352.4	352.1	351.8	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1
147.5°	369.2	368.6	368.1	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9
150°	379.5	379.0	378.5	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2
152.5°	389.4	388.9	388.5	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6
155°	403.4	402.8	402.3	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5
157.5°	415.5	415.0	414.5	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3
160°	423.1	422.8	422.5	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6
162.5°	429.8	429.2	428.7	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5
165°	438.6	438.0	437.4	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2
167.5°	445.8	445.3	444.8	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3
170°	449.7	449.2	448.6	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2
172.5°	452.6	452.0	451.5	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2
175°	455.8	455.3	454.7	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4
177.5°	457.2	456.8	456.3	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	600.5	600.5	605.1	608.0	611.6	614.1	615.8	617.5	620.4	624.3	628.7
5°	566.2	567.4	574.0	580.7	587.1	592.6	597.1	602.5	609.3	617.4	626.5
7.5°	532.9	537.6	544.3	552.5	561.3	569.3	577.3	586.4	595.7	607.8	620.6
10°	511.5	516.7	524.9	535.2	544.6	554.0	564.0	573.7	585.6	599.8	616.2
12.5°	492.8	497.7	506.2	517.5	526.4	536.8	548.3	560.9	574.2	591.4	609.9
15°	466.9	472.7	483.0	488.5	502.2	514.6	525.2	543.4	560.4	578.0	599.5
17.5°	445.7	448.9	457.2	467.4	477.6	491.5	505.5	520.6	537.6	559.1	586.1
20°	431.1	433.9	443.0	453.6	464.5	477.3	489.7	504.9	523.9	546.8	575.8
22.5°	420.2	423.2	429.1	440.5	450.7	461.2	473.6	491.8	512.1	534.3	565.9
25°	404.4	406.2	410.2	419.3	428.4	440.2	451.1	468.2	489.1	515.2	546.8
27.5°	389.4	391.2	394.5	401.0	409.6	419.1	431.0	445.4	466.7	495.0	528.5
30°	380.5	380.8	383.8	389.8	397.1	405.0	416.0	432.4	452.3	481.2	516.4
32.5°	372.7	371.5	373.6	378.2	385.2	393.2	402.1	418.3	437.6	465.9	502.1
35°	359.5	358.9	358.0	361.9	368.0	374.1	382.0	394.1	416.0	442.4	480.3
37.5°	346.1	344.7	343.0	344.8	349.6	355.9	362.7	373.5	392.4	421.4	457.7
40°	336.2	334.9	334.1	333.4	337.7	343.7	348.9	359.3	376.8	404.4	440.2
42.5°	325.3	324.6	323.4	322.5	326.1	330.7	336.0	345.2	362.7	388.6	422.6
45°	307.7	307.0	306.4	305.9	307.9	312.2	316.5	323.1	338.3	363.5	394.1
47.5°	288.0	287.2	287.5	286.5	288.6	291.4	294.5	301.6	316.2	336.4	358.9
50°	273.9	273.7	273.7	273.7	274.3	277.6	280.4	285.8	299.1	319.5	335.6
52.5°	260.6	259.4	259.4	259.8	260.9	263.1	264.8	270.8	282.4	299.1	313.7
55°	239.7	237.3	236.6	237.3	238.2	240.0	241.8	246.7	256.7	269.1	277.6
57.5°	216.5	215.2	214.4	214.5	215.0	216.4	217.9	223.2	231.0	237.5	243.0
60°	200.3	200.8	198.1	198.8	198.8	199.9	202.1	205.4	212.1	216.7	222.1
62.5°	185.0	184.1	183.3	182.4	182.4	182.9	185.8	188.4	194.1	196.5	200.7
65°	161.1	161.1	159.3	159.9	160.2	158.0	159.6	162.6	166.3	167.2	171.1
67.5°	137.0	136.1	135.1	134.2	134.2	134.0	134.8	136.3	139.0	139.3	142.4
70°	120.4	119.9	119.5	118.7	117.4	118.9	118.0	119.5	121.0	121.4	123.2
72.5°	104.4	103.9	103.3	102.3	101.9	101.7	101.8	103.5	104.6	104.1	106.2
75°	81.6	81.0	80.4	78.9	78.9	78.0	78.3	79.5	80.7	79.8	81.6
77.5°	60.0	58.1	58.0	58.4	57.4	57.5	57.2	57.0	57.5	57.6	59.3
80°	46.1	44.0	44.6	44.3	44.0	43.7	43.1	43.4	43.7	44.0	44.9
82.5°	33.3	33.0	32.5	32.4	32.1	31.3	31.0	31.5	31.8	31.6	32.3
85°	17.0	16.1	16.7	16.4	16.7	16.4	15.4	15.4	16.1	15.8	16.4
87.5°	6.9	6.8	6.3	6.4	5.9	6.0	5.5	5.6	5.7	5.5	5.9
90°	9.0	8.6	7.6	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4
92.5°	14.0	13.8	13.2	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7
95°	26.9	26.5	25.9	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2
97.5°	41.9	41.6	41.1	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6
100°	53.0	52.8	52.4	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8
102.5°	65.7	65.4	64.9	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7
105°	84.7	84.7	84.0	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8
107.5°	104.9	104.6	104.3	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9
110°	118.4	118.1	118.0	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.0	131.6	131.6	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0
115°	153.0	153.0	153.1	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6
117.5°	174.0	174.0	174.3	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3
120°	188.1	188.1	188.5	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7
122.5°	202.2	202.5	202.7	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8
125°	223.3	223.6	223.8	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3
127.5°	244.2	244.6	244.8	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1
130°	257.8	258.1	258.3	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4
132.5°	271.2	271.6	271.8	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5
135°	291.2	291.5	291.6	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7
137.5°	310.8	311.1	310.9	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4
140°	323.4	323.4	323.4	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3
142.5°	335.4	335.5	335.4	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1
145°	353.2	353.2	353.0	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5
147.5°	369.9	369.9	369.6	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6
150°	380.2	380.2	380.0	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7
152.5°	389.5	389.4	389.3	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9
155°	403.1	402.8	402.7	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4
157.5°	414.9	414.6	414.5	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8
160°	422.2	421.8	421.8	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6
162.5°	429.1	428.7	428.6	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4
165°	437.8	437.3	437.3	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3
167.5°	444.8	444.3	444.3	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4
170°	448.6	448.1	448.1	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5
172.5°	451.7	451.1	451.1	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7
175°	455.0	454.5	454.5	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9
177.5°	456.5	456.1	456.1	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.1	631.3	635.4	638.3	641.7	643.7	645.6	647.1	649.0	649.5	656.6
5°	632.9	639.0	649.6	657.4	667.2	677.8	685.1	688.4	697.2	704.5	719.1
7.5°	632.1	645.0	661.1	677.7	695.5	712.0	726.4	743.3	755.4	773.6	791.5
10°	631.4	648.6	669.3	690.5	715.4	738.5	759.1	782.2	801.3	826.5	848.0
12.5°	629.2	650.1	678.7	703.9	734.1	765.9	796.5	826.1	843.0	884.9	904.8
15°	623.8	648.6	684.4	722.7	764.3	801.9	840.7	871.6	921.7	958.5	981.8
17.5°	613.5	648.3	690.8	736.9	787.4	837.0	881.0	928.0	981.1	1025.5	1072.9
20°	608.6	646.8	694.2	745.1	797.6	853.7	903.8	960.3	1018.2	1061.9	1122.6
22.5°	599.7	642.9	694.0	750.8	806.8	864.9	923.5	980.4	1047.3	1107.6	1165.3
25°	584.9	633.5	686.3	749.7	815.6	873.8	943.9	1019.5	1089.3	1166.6	1224.2
27.5°	569.6	621.4	674.3	733.2	804.1	873.2	961.4	1046.7	1132.0	1198.9	1241.5
30°	557.6	608.0	662.7	722.1	792.2	874.4	973.0	1066.1	1149.3	1206.7	1230.6
32.5°	544.8	595.9	644.2	706.5	781.3	873.7	980.3	1077.5	1150.2	1188.4	1183.8
35°	524.6	567.4	614.4	674.5	762.5	868.3	984.5	1078.6	1123.2	1115.0	1053.1
37.5°	495.4	531.5	577.7	643.5	740.6	857.1	976.0	1046.6	1043.7	977.0	887.3
40°	477.3	507.9	552.5	621.7	723.6	849.9	962.7	1008.5	969.7	876.5	769.1
42.5°	453.4	481.6	526.2	597.4	705.0	835.0	937.2	950.5	874.5	767.3	668.9
45°	416.6	441.5	487.6	561.0	676.9	802.8	875.0	842.6	740.3	629.5	554.6
47.5°	376.9	402.8	447.2	522.6	636.4	754.3	788.7	719.7	614.7	524.9	456.1
50°	352.0	376.8	420.2	496.4	609.0	714.5	728.8	639.6	543.1	464.2	407.7
52.5°	326.7	350.1	392.8	469.2	576.9	668.4	659.6	568.7	480.0	412.7	368.4
55°	289.1	311.3	352.0	423.6	521.6	594.1	562.2	475.5	402.0	349.8	316.2
57.5°	255.6	276.8	311.8	376.5	461.7	511.5	471.0	397.9	339.5	299.4	274.3
60°	232.7	251.5	284.9	345.0	419.0	456.9	416.8	352.3	303.1	270.9	248.5
62.5°	211.1	227.5	258.4	312.9	377.2	409.1	368.6	313.9	272.0	243.5	224.4
65°	178.4	193.3	220.5	263.1	315.8	337.1	302.2	257.9	225.5	204.2	191.5
67.5°	148.5	161.1	184.7	218.2	257.1	272.5	246.0	211.7	187.2	170.2	160.0
70°	128.7	139.6	158.0	186.9	222.1	233.9	209.1	180.9	163.0	149.2	139.9
72.5°	111.9	119.9	136.7	159.0	188.4	197.7	180.4	155.6	138.9	128.7	121.2
75°	85.2	91.9	102.8	120.7	141.1	146.6	133.5	118.0	106.8	99.5	93.7
77.5°	61.5	66.4	74.3	85.3	99.4	104.3	96.1	85.7	77.6	72.6	69.4
80°	46.4	50.4	57.0	66.1	74.6	77.4	72.5	64.6	58.9	56.2	53.4
82.5°	34.3	36.5	40.6	46.7	52.5	55.8	51.7	46.9	43.8	41.4	40.3
85°	17.3	18.5	20.4	22.7	26.4	27.6	26.1	24.9	23.1	21.5	21.5
87.5°	6.6	6.7	7.6	8.2	9.4	10.3	10.3	10.0	10.0	9.8	9.6
90°	1.2	2.0	2.8	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3
92.5°	9.3	9.7	10.3	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3
95°	21.7	22.3	22.9	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2
97.5°	38.0	38.4	38.9	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3
100°	49.3	49.7	50.2	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2
102.5°	62.0	62.3	62.6	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9
105°	81.0	81.1	81.3	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7
107.5°	103.0	103.1	103.1	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1
110°	116.8	117.0	117.2	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7



TEST NUMBER: P332121-927

CATALOG NUMBER: S123DIW-S560D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.1	131.3	131.3	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4
115°	152.8	153.0	153.3	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1
117.5°	174.4	174.6	174.8	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0
120°	188.2	188.7	189.2	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0
122.5°	202.2	202.6	202.9	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1
125°	223.6	223.8	224.0	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0
127.5°	243.6	244.2	244.6	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8
130°	257.0	257.6	258.3	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5
132.5°	270.1	270.8	271.5	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8
135°	290.2	290.7	291.1	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9
137.5°	308.8	309.2	309.6	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5
140°	321.7	322.1	322.5	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3
142.5°	333.5	333.9	334.3	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3
145°	351.6	351.8	352.0	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1
147.5°	367.8	368.1	368.4	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9
150°	378.9	379.1	379.2	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2
152.5°	388.2	388.4	388.6	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6
155°	402.4	402.4	402.4	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5
157.5°	414.7	414.6	414.5	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3
160°	422.4	422.2	422.1	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6
162.5°	429.2	429.0	428.7	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5
165°	438.1	437.8	437.6	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2
167.5°	445.1	444.8	444.5	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3
170°	449.2	448.9	448.5	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2
172.5°	452.3	452.0	451.7	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2
175°	455.6	455.3	455.0	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4
177.5°	457.0	456.8	456.5	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	659.0	659.3	661.9	663.8	662.9	664.1	664.6
5°	719.9	730.9	736.7	740.9	741.2	741.5	743.9
7.5°	806.4	818.2	826.7	839.7	843.6	848.0	846.8
10°	869.6	886.8	901.7	909.6	918.1	930.5	920.5
12.5°	928.5	959.2	981.8	994.0	1002.1	1004.6	999.7
15°	1025.8	1065.9	1087.4	1086.8	1114.1	1125.9	1107.4
17.5°	1115.0	1152.0	1181.5	1196.7	1219.5	1224.6	1222.3
20°	1169.6	1210.0	1233.0	1259.1	1271.0	1281.6	1283.4
22.5°	1216.7	1252.9	1277.7	1299.4	1309.3	1314.3	1317.4
25°	1265.2	1293.7	1308.6	1316.1	1318.9	1318.3	1314.3
27.5°	1261.9	1264.0	1247.7	1231.6	1217.2	1200.9	1195.4
30°	1229.1	1203.6	1158.1	1132.3	1094.4	1064.3	1076.5
32.5°	1142.9	1092.2	1041.1	984.7	938.0	924.8	911.4
35°	975.4	886.2	834.1	773.4	749.1	724.8	708.1
37.5°	789.2	720.2	658.2	618.5	594.2	578.9	570.6
40°	682.4	620.1	569.2	537.0	518.5	501.2	498.8
42.5°	597.1	539.3	501.0	475.4	457.6	450.3	444.9
45°	489.1	448.7	422.9	404.7	392.9	388.3	382.3
47.5°	414.0	385.5	366.1	353.7	344.8	341.4	340.9
50°	372.0	348.3	334.1	324.3	317.3	316.2	311.3
52.5°	340.4	319.9	308.8	300.3	295.2	291.8	290.4
55°	295.5	281.9	271.9	267.0	263.1	259.7	259.7
57.5°	258.6	247.2	240.5	236.4	235.2	232.8	231.3
60°	235.8	226.0	220.9	217.2	214.8	215.1	212.4
62.5°	213.4	207.1	202.2	198.5	195.7	195.7	195.9
65°	181.7	176.9	173.3	172.1	170.2	168.1	168.7
67.5°	154.0	149.5	146.6	144.6	143.9	142.8	144.6
70°	134.1	130.8	128.7	126.8	126.2	126.5	128.0
72.5°	115.9	113.5	112.2	111.3	110.0	110.0	111.1
75°	91.0	89.2	88.0	87.1	86.7	86.7	86.7
77.5°	66.9	66.5	65.9	64.6	64.6	65.0	65.0
80°	52.8	51.9	51.6	50.9	50.1	49.4	50.9
82.5°	39.5	38.5	38.3	38.1	36.7	36.6	37.9
85°	21.2	20.4	20.6	20.4	20.4	20.0	20.0
87.5°	9.4	9.3	9.0	9.3	9.1	9.0	9.4
90°	9.6	9.9	10.1	10.3	10.5	10.6	10.8
92.5°	14.6	14.8	14.9	14.8	14.7	14.6	14.5
95°	27.5	27.8	28.0	28.0	28.0	28.0	28.0
97.5°	42.7	43.0	43.2	43.2	43.2	43.1	43.1
100°	53.5	53.7	53.9	54.1	54.3	54.4	54.6
102.5°	66.1	66.4	66.5	66.5	66.4	66.4	66.3
105°	84.7	84.7	84.8	85.0	85.2	85.3	85.5
107.5°	105.4	105.6	105.7	105.6	105.5	105.4	105.4
110°	119.1	119.4	119.5	119.3	119.1	119.0	118.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	132.8	133.2	133.3	133.2	133.2	133.2	133.2
115°	153.2	153.3	153.3	153.2	153.1	153.0	153.0
117.5°	174.0	174.0	173.9	173.6	173.4	173.2	172.9
120°	187.9	187.8	187.7	187.5	187.4	187.2	187.0
122.5°	201.8	201.6	201.5	201.2	201.0	200.7	200.5
125°	222.7	222.4	222.0	221.7	221.4	221.1	220.8
127.5°	243.3	242.8	242.4	242.1	241.7	241.3	241.0
130°	257.1	256.8	256.4	255.9	255.3	254.8	254.1
132.5°	270.5	270.1	269.7	269.3	268.8	268.4	267.9
135°	290.6	290.3	290.0	289.9	289.7	289.5	289.4
137.5°	310.1	309.7	309.4	309.1	308.9	308.6	308.2
140°	323.2	323.1	322.8	322.3	321.7	321.2	320.6
142.5°	335.3	335.2	334.9	334.5	334.1	333.7	333.2
145°	353.0	352.9	352.8	352.4	352.1	351.8	351.5
147.5°	369.9	369.9	369.6	369.2	368.6	368.1	367.7
150°	380.2	380.2	379.9	379.5	379.0	378.5	378.0
152.5°	389.8	389.9	389.8	389.4	388.9	388.5	388.1
155°	403.8	404.1	403.9	403.4	402.8	402.3	401.7
157.5°	415.7	416.0	415.9	415.5	415.0	414.5	414.2
160°	423.0	423.4	423.4	423.1	422.8	422.5	422.2
162.5°	429.9	430.3	430.2	429.8	429.2	428.7	428.2
165°	438.7	439.2	439.1	438.6	438.0	437.4	436.9
167.5°	445.8	446.2	446.2	445.8	445.3	444.8	444.3
170°	449.7	450.3	450.3	449.7	449.2	448.6	448.1
172.5°	452.7	453.1	453.1	452.6	452.0	451.5	450.9
175°	455.9	456.4	456.4	455.8	455.3	454.7	454.2
177.5°	457.3	457.6	457.6	457.2	456.8	456.3	455.8
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)