

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: P332410-927

Luminaire Tested: **S123RDIW-S560D460U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332410-927
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: S123RDIW-S560D460U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

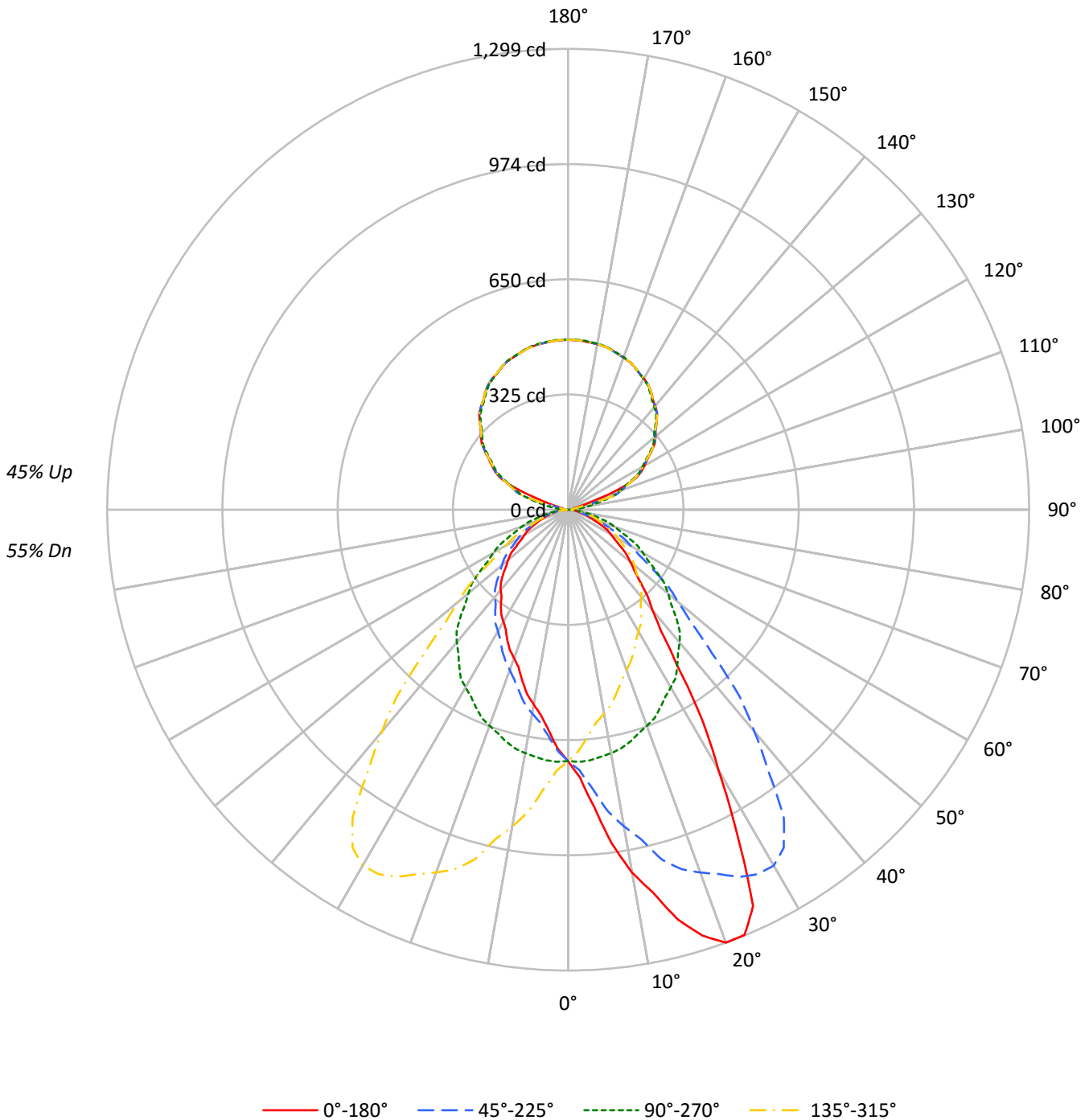
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	74	67	62	77	70	63	58	60	56	52	52	48	45	44	41	39	35
4	77	66	59	53	71	62	55	50	54	49	45	46	43	39	39	37	34	31
5	71	59	52	46	66	56	49	43	49	43	39	42	38	34	36	33	30	27
6	65	54	46	40	61	50	43	38	44	38	34	38	34	31	33	29	27	24
7	61	49	41	35	56	46	39	34	40	34	30	35	30	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7629	7629	7629	7629
5°	9095	7662	6748	7662
10°	11355	7618	6096	7618
15°	13329	7540	5558	7540
20°	14875	7424	5102	7424
25°	14638	7301	4822	7301
30°	10521	7188	4533	7188
35°	7025	7041	4346	7041
40°	5176	6864	4154	6864
45°	4341	6555	3962	6555
50°	3831	6149	3699	6149
55°	3359	5684	3337	5684
60°	2990	5240	3057	5240
65°	2626	4760	2845	4760
70°	2061	4337	2596	4337
75°	1817	3785	2371	3785
80°	1581	3217	2331	3217
85°	1272	2581	2470	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	2.2
10°-20°	217.8	6.7
20°-30°	342.1	10.6
30°-40°	356.9	11.1
40°-50°	305.5	9.5
50°-60°	232.8	7.2
60°-70°	149.2	4.6
70°-80°	71.8	2.2
80°-90°	20.3	0.6
90°-100°	17.4	0.5
100°-110°	83.0	2.6
110°-120°	199.4	6.2
120°-130°	253.9	7.9
130°-140°	271.3	8.4
140°-150°	253.7	7.9
150°-160°	204.6	6.3
160°-170°	132.1	4.1
170°-180°	45.5	1.4
0°-30°	629.6	19.5
0°-40°	986.5	30.6
0°-60°	1524.8	47.3
0°-90°	1766.1	54.7
90°-120°	299.8	9.3
90°-150°	1078.7	33.4
90°-180°	1461.0	45.3
0°-180°	3227.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	842	709	624	709	842	87
15°	1196	677	499	677	1196	339
25°	1232	615	406	615	1232	530
35°	535	536	331	536	535	351
45°	285	431	260	431	285	224
55°	179	303	178	303	179	162
65°	103	187	112	187	103	101
75°	44	91	57	91	44	47
85°	10	21	20	21	10	12
90°	11	0	11	0	11	5
95°	14	22	14	22	14	11
105°	16	106	16	106	16	36
115°	209	199	209	199	209	193
125°	286	280	286	280	286	256
135°	353	349	353	349	353	272
145°	407	403	407	403	407	254
155°	443	444	443	444	443	204
165°	467	468	467	468	467	132
175°	477	479	477	479	477	45
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	754.9	755.9	752.7	752.3	748.6	747.7	747.7	742.5	739.3	735.2	732.8
5°	841.7	846.5	844.1	838.7	829.6	827.4	821.7	812.5	802.2	789.5	783.5
7.5°	950.1	956.7	954.1	945.7	936.2	928.4	912.2	897.1	875.9	857.4	841.5
10°	1038.9	1031.9	1026.5	1018.3	1009.5	995.2	978.3	954.9	927.9	906.7	883.0
12.5°	1105.4	1104.3	1097.3	1088.9	1076.5	1063.0	1042.0	1013.6	982.2	951.5	924.5
15°	1196.1	1197.9	1193.3	1184.6	1167.0	1143.0	1111.4	1099.6	1054.7	1021.3	987.9
17.5°	1258.9	1258.5	1257.8	1245.6	1227.7	1210.6	1181.4	1150.2	1109.6	1062.6	1017.6
20°	1298.6	1295.6	1296.2	1282.5	1269.2	1249.5	1221.0	1175.8	1142.4	1088.1	1041.6
22.5°	1297.7	1297.0	1299.3	1294.7	1285.0	1269.9	1247.4	1209.3	1166.6	1111.8	1059.6
25°	1232.5	1230.1	1244.4	1248.2	1263.8	1266.5	1259.8	1238.9	1198.5	1142.1	1077.4
27.5°	1031.5	1030.2	1056.6	1089.7	1131.8	1164.4	1196.0	1211.2	1198.5	1158.1	1093.4
30°	846.5	875.0	888.4	936.4	989.8	1053.4	1109.3	1162.4	1175.4	1157.9	1104.8
32.5°	702.8	727.7	738.9	780.1	829.8	904.4	988.2	1063.3	1116.5	1130.0	1098.0
35°	534.6	535.0	560.4	578.6	624.7	701.5	782.8	883.5	983.7	1059.5	1067.5
37.5°	426.6	428.1	443.5	461.7	496.3	536.9	608.5	692.2	807.9	924.3	992.6
40°	368.4	371.1	382.6	400.5	425.4	456.1	511.9	590.7	687.2	816.8	922.7
42.5°	331.0	335.4	341.4	355.1	370.5	399.3	444.4	505.3	593.0	715.6	837.7
45°	285.2	287.6	292.2	298.6	312.5	332.6	362.9	403.9	476.7	575.3	697.6
47.5°	251.6	250.3	255.1	260.3	269.6	283.2	303.6	337.0	389.0	468.0	571.8
50°	228.8	228.5	231.8	235.8	244.5	254.6	271.2	296.4	337.7	403.2	498.2
52.5°	207.4	208.6	211.0	215.9	222.2	230.3	245.3	263.4	298.9	355.5	434.6
55°	179.0	179.9	183.2	186.0	190.5	198.8	208.2	223.3	247.6	287.0	352.3
57.5°	155.0	154.6	157.8	158.4	163.6	170.2	177.5	189.3	206.9	236.2	280.2
60°	138.9	138.1	140.8	142.9	145.6	151.1	157.2	168.7	182.7	204.2	241.9
62.5°	124.4	124.0	126.0	128.1	130.3	135.3	140.5	149.2	160.3	178.5	208.3
65°	103.1	104.1	105.0	105.9	107.1	110.1	115.0	121.0	128.7	141.4	163.0
67.5°	81.0	82.0	82.3	84.1	86.7	88.6	91.7	97.0	102.3	113.0	125.3
70°	65.5	65.2	65.5	66.5	69.8	73.1	77.1	81.0	84.4	92.0	102.3
72.5°	56.3	55.8	56.6	56.7	58.4	59.3	61.8	65.5	69.8	74.9	82.4
75°	43.7	43.7	43.7	43.7	44.9	45.6	46.4	47.4	48.9	51.3	56.7
77.5°	32.3	32.3	32.8	33.0	33.4	33.7	34.2	35.2	35.6	37.0	39.3
80°	25.5	25.8	25.5	25.8	25.8	26.4	26.7	27.6	27.9	29.5	30.3
82.5°	19.2	19.0	19.2	19.5	19.5	20.1	20.1	20.8	20.9	21.6	22.6
85°	10.3	9.7	10.3	10.0	10.6	10.0	10.3	10.9	10.9	11.2	12.4
87.5°	4.6	5.0	4.5	4.7	4.7	4.9	4.8	4.8	5.1	4.8	4.9
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2	8.9	8.6	7.5
92.5°	11.8	11.7	11.6	11.6	11.4	11.2	10.6	10.1	9.6	9.1	8.3
95°	13.5	13.5	13.5	13.5	13.5	13.2	12.7	12.1	11.6	11.0	10.1
97.5°	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.8	12.1	11.5	17.2
100°	15.0	14.9	14.8	14.7	14.7	14.3	13.6	13.0	12.4	11.7	24.1
102.5°	15.2	15.1	15.0	14.8	14.7	15.6	17.5	19.5	21.5	23.4	36.9
105°	15.7	15.5	15.4	15.2	15.1	21.9	36.0	49.9	63.9	78.0	85.1
107.5°	49.2	59.7	70.3	80.8	91.4	101.8	112.1	122.3	132.6	142.8	141.7
110°	97.9	109.2	120.5	131.8	143.1	150.0	152.7	155.3	157.9	160.5	159.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	167.9	170.3	172.7	175.1	177.4	178.6	178.6	178.6	178.5	178.5	177.6
115°	209.3	209.0	208.7	208.3	208.0	207.5	206.7	205.9	205.1	204.3	203.6
117.5°	232.5	232.4	232.3	232.3	232.2	231.9	231.2	230.6	230.0	229.3	229.0
120°	248.4	248.4	248.4	248.4	248.4	248.1	247.5	246.8	246.2	245.6	245.3
122.5°	264.1	264.0	264.0	263.9	263.8	263.6	263.2	262.7	262.2	261.8	261.5
125°	286.1	286.0	285.8	285.7	285.5	285.3	285.2	285.0	284.9	284.7	284.4
127.5°	307.4	307.5	307.7	307.8	308.0	307.9	307.7	307.4	307.2	307.0	306.6
130°	321.0	321.2	321.3	321.5	321.6	321.5	321.2	320.9	320.6	320.3	320.0
132.5°	333.6	333.7	334.0	334.2	334.5	334.4	334.1	333.7	333.4	333.1	332.9
135°	352.7	352.9	353.2	353.4	353.6	353.6	353.4	353.2	352.9	352.7	352.4
137.5°	370.7	370.9	371.1	371.2	371.4	371.2	370.8	370.5	370.1	369.7	369.6
140°	381.5	381.7	381.8	382.0	382.1	382.1	381.8	381.4	381.1	380.8	380.6
142.5°	391.5	391.7	392.0	392.1	392.4	392.4	392.1	391.9	391.6	391.3	391.1
145°	406.8	406.8	406.8	406.8	406.8	406.7	406.5	406.4	406.2	406.1	405.9
147.5°	418.2	418.6	418.9	419.3	419.6	419.8	419.6	419.5	419.3	419.1	419.0
150°	426.7	427.0	427.2	427.5	427.7	427.7	427.5	427.4	427.2	427.1	426.9
152.5°	433.6	434.0	434.3	434.7	435.0	435.1	434.7	434.5	434.2	434.0	433.8
155°	443.1	443.5	444.0	444.5	445.0	445.0	444.7	444.3	443.9	443.5	443.4
157.5°	451.1	451.8	452.4	453.0	453.6	453.7	453.2	452.7	452.3	451.8	451.9
160°	456.3	456.9	457.4	458.0	458.5	458.5	458.0	457.6	457.1	456.6	456.7
162.5°	461.1	461.6	462.1	462.6	463.1	463.0	462.6	462.0	461.4	460.9	461.0
165°	467.0	467.5	468.1	468.6	469.1	469.1	468.5	467.9	467.2	466.6	466.7
167.5°	471.2	471.8	472.5	473.0	473.6	473.6	473.0	472.5	471.8	471.2	471.2
170°	473.7	474.4	475.0	475.6	476.3	476.3	475.6	475.0	474.4	473.7	473.7
172.5°	475.2	475.9	476.5	477.2	477.9	477.9	477.3	476.7	476.0	475.4	475.4
175°	477.3	477.9	478.6	479.2	479.8	479.8	479.3	478.7	478.2	477.6	477.5
177.5°	477.9	478.6	479.2	479.8	480.5	480.5	480.0	479.5	479.0	478.5	478.4
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	731.8	731.1	727.7	723.8	718.7	715.3	712.6	711.2	706.9	701.5	697.8
5°	777.1	767.9	758.3	746.4	735.5	724.3	717.3	709.1	699.1	687.9	679.9
7.5°	825.5	807.6	788.4	768.6	748.9	731.3	715.8	702.5	686.6	670.5	659.2
10°	862.6	836.5	809.5	781.9	756.7	733.1	714.9	697.0	677.9	659.3	645.4
12.5°	896.4	862.1	830.9	796.9	764.8	736.5	710.3	689.2	666.2	646.5	630.6
15°	939.1	903.9	866.3	814.7	771.9	736.1	704.3	676.6	648.7	624.5	609.0
17.5°	979.0	926.1	875.5	832.4	776.9	732.1	693.2	660.2	629.6	603.9	584.8
20°	995.5	944.3	889.3	834.4	779.8	729.8	684.5	648.1	616.2	587.1	569.5
22.5°	1005.4	947.4	889.5	830.5	772.5	720.5	675.8	635.7	601.2	573.5	551.8
25°	1017.1	947.8	884.2	825.9	766.8	710.3	657.2	614.7	577.4	548.0	524.9
27.5°	1024.7	943.3	868.0	803.3	743.2	687.1	638.4	593.3	555.5	524.3	499.6
30°	1026.2	939.7	855.6	785.5	724.5	673.0	621.4	578.3	538.3	505.2	482.1
32.5°	1028.1	930.7	838.9	764.5	702.0	650.9	604.2	563.0	522.0	489.4	465.9
35°	1020.1	925.7	813.5	727.9	665.4	615.9	573.8	535.8	495.5	463.9	440.0
37.5°	985.6	906.0	787.1	686.7	621.4	575.6	541.2	508.2	471.2	437.1	414.5
40°	950.9	886.6	766.8	661.8	593.5	546.4	515.5	488.5	452.7	420.8	396.6
42.5°	899.2	860.2	747.3	635.6	561.9	516.6	490.5	465.2	433.8	401.4	378.6
45°	804.4	809.5	707.6	593.8	518.2	472.7	448.1	430.6	402.7	376.0	352.6
47.5°	685.4	733.6	660.9	549.3	472.2	429.4	408.0	392.6	373.8	347.6	326.3
50°	607.8	676.6	623.5	519.4	443.3	400.8	379.6	367.2	350.8	330.1	309.8
52.5°	536.1	610.1	578.4	486.2	412.0	373.1	352.4	342.1	329.2	309.7	291.4
55°	437.2	512.1	504.9	436.0	365.0	330.1	314.3	302.9	294.0	279.5	264.9
57.5°	353.6	424.7	428.5	380.2	323.6	289.1	275.6	266.9	261.1	250.2	236.7
60°	301.0	366.2	379.0	342.5	294.0	263.6	250.3	243.4	238.8	230.0	219.7
62.5°	257.3	312.8	327.3	301.0	265.6	237.2	226.8	220.1	217.0	209.4	200.3
65°	196.9	243.0	257.0	242.4	223.9	201.1	192.7	186.9	184.2	179.9	173.3
67.5°	148.1	181.7	197.0	186.7	180.1	165.6	160.3	157.2	154.7	151.9	146.2
70°	118.9	143.9	159.6	156.9	151.4	143.9	139.9	137.8	135.3	132.9	128.0
72.5°	95.6	112.7	127.5	129.0	124.5	122.9	119.5	118.6	117.1	114.2	111.5
75°	63.5	75.3	85.6	89.5	91.3	92.8	91.3	91.0	90.7	88.3	86.7
77.5°	41.6	47.9	54.4	61.2	64.0	66.1	66.5	67.7	66.9	65.6	64.9
80°	31.8	33.4	37.9	43.7	48.2	50.1	51.3	51.9	51.6	51.3	50.1
82.5°	23.1	24.4	26.5	30.6	34.4	37.5	38.2	38.0	38.7	38.9	37.9
85°	12.4	12.8	13.4	13.9	16.1	19.4	20.4	20.9	21.5	21.5	19.7
87.5°	5.1	4.8	5.0	4.8	5.4	5.5	6.8	7.8	8.2	7.4	7.6
90°	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.5	6.8	6.0	5.7	5.9	6.2	6.4	6.7	6.4	6.2	5.9
95°	9.3	8.4	7.5	8.7	12.0	15.2	18.5	21.7	18.5	15.2	12.0
97.5°	22.8	28.5	34.2	37.8	39.3	40.7	42.1	43.6	42.1	40.7	39.3
100°	36.4	48.8	61.1	66.5	64.9	63.3	61.7	60.1	61.7	63.3	64.9
102.5°	50.4	63.8	77.3	83.5	82.4	81.2	80.1	78.9	80.1	81.2	82.4
105°	92.2	99.3	106.4	109.6	108.7	107.8	106.9	106.1	106.9	107.8	108.7
107.5°	140.6	139.5	138.4	137.4	136.7	136.1	135.4	134.7	135.4	136.1	136.7
110°	158.8	157.9	157.0	156.3	155.7	155.0	154.4	153.8	154.4	155.0	155.7



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	176.7	175.9	175.0	174.3	173.6	173.1	172.5	172.0	172.5	173.1	173.6
115°	202.9	202.2	201.5	200.8	200.3	199.9	199.4	198.9	199.4	199.9	200.3
117.5°	228.6	228.2	227.9	227.4	226.8	226.2	225.7	225.1	225.7	226.2	226.8
120°	245.1	244.9	244.6	244.2	243.4	242.7	242.0	241.3	242.0	242.7	243.4
122.5°	261.2	260.9	260.6	260.2	259.6	259.0	258.4	257.9	258.4	259.0	259.6
125°	284.1	283.8	283.4	283.0	282.3	281.7	281.1	280.4	281.1	281.7	282.3
127.5°	306.2	305.8	305.4	304.9	304.3	303.6	303.0	302.4	303.0	303.6	304.3
130°	319.7	319.4	319.1	318.6	318.0	317.3	316.7	316.1	316.7	317.3	318.0
132.5°	332.6	332.4	332.1	331.7	331.1	330.4	329.8	329.2	329.8	330.4	331.1
135°	352.0	351.7	351.4	351.0	350.5	350.1	349.6	349.1	349.6	350.1	350.5
137.5°	369.4	369.2	369.0	368.6	368.0	367.4	366.9	366.2	366.9	367.4	368.0
140°	380.3	380.1	379.9	379.5	379.1	378.6	378.1	377.6	378.1	378.6	379.1
142.5°	390.9	390.6	390.4	390.1	389.6	389.1	388.6	388.2	388.6	389.1	389.6
145°	405.8	405.6	405.4	405.1	404.6	404.0	403.5	402.9	403.5	404.0	404.6
147.5°	418.8	418.7	418.5	418.2	417.9	417.5	417.2	416.8	417.2	417.5	417.9
150°	426.7	426.6	426.4	426.3	426.0	425.8	425.6	425.3	425.6	425.8	426.0
152.5°	433.7	433.6	433.6	433.5	433.3	433.2	433.1	433.0	433.1	433.2	433.3
155°	443.3	443.2	443.1	443.2	443.4	443.5	443.6	443.8	443.6	443.5	443.4
157.5°	451.9	452.0	452.1	452.2	452.2	452.2	452.2	452.3	452.2	452.2	452.2
160°	456.8	456.9	456.9	457.0	457.1	457.2	457.2	457.3	457.2	457.2	457.1
162.5°	461.1	461.1	461.2	461.4	461.6	461.8	462.0	462.2	462.0	461.8	461.6
165°	466.8	466.8	466.9	467.1	467.3	467.5	467.8	468.0	467.8	467.5	467.3
167.5°	471.2	471.2	471.2	471.3	471.7	472.0	472.3	472.6	472.3	472.0	471.7
170°	473.7	473.7	473.7	473.9	474.2	474.5	474.8	475.2	474.8	474.5	474.2
172.5°	475.3	475.2	475.2	475.3	475.7	476.1	476.5	476.8	476.5	476.1	475.7
175°	477.4	477.4	477.3	477.4	477.8	478.2	478.6	479.0	478.6	478.2	477.8
177.5°	478.3	478.3	478.2	478.3	478.6	479.0	479.3	479.6	479.3	479.0	478.6
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	696.6	693.5	691.3	686.4	683.3	679.9	676.5	678.7	678.4	678.2	678.2
5°	673.3	666.3	660.0	651.7	646.6	640.2	635.3	634.8	636.0	631.7	629.3
7.5°	650.1	640.6	631.5	622.5	612.9	605.2	600.5	598.3	595.2	592.6	589.8
10°	633.8	622.7	613.8	602.6	592.3	583.2	577.4	573.5	571.3	569.2	565.3
12.5°	617.1	606.1	594.8	582.2	572.4	561.8	557.5	553.1	549.0	546.6	541.2
15°	592.6	578.3	566.5	553.1	542.2	531.9	525.9	517.1	515.8	512.8	507.3
17.5°	568.0	552.5	536.2	526.3	514.0	503.3	494.0	491.1	482.4	479.1	474.4
20°	548.6	534.3	521.9	508.8	490.9	480.9	473.6	469.7	462.7	458.4	455.4
22.5°	531.9	517.3	503.0	487.7	472.9	461.8	456.4	450.3	446.5	440.5	437.2
25°	507.9	492.2	474.8	458.4	447.8	439.3	430.9	425.4	419.9	417.2	411.1
27.5°	480.1	463.7	447.5	435.1	422.0	413.6	405.9	401.1	394.5	389.9	386.6
30°	464.9	445.4	431.5	420.3	403.5	395.7	389.9	383.8	379.0	374.1	370.7
32.5°	447.1	429.4	416.1	402.3	389.4	380.9	373.4	368.0	363.9	359.3	356.0
35°	419.3	404.5	390.8	376.8	367.4	358.6	349.8	345.3	341.4	337.1	334.1
37.5°	394.2	380.3	367.3	354.1	342.5	335.3	328.2	324.7	319.4	316.6	313.5
40°	378.7	365.0	351.1	338.3	326.1	320.8	314.3	309.2	304.4	302.2	298.9
42.5°	361.7	348.0	336.3	322.5	312.6	305.1	299.3	293.7	290.0	286.9	285.0
45°	336.5	324.3	312.8	299.2	289.8	283.4	276.7	271.6	268.2	266.1	262.8
47.5°	312.0	299.9	288.2	276.3	267.2	259.9	253.3	249.6	245.3	242.6	240.3
50°	294.3	283.4	270.9	260.0	251.0	243.7	238.2	233.6	229.7	226.3	224.8
52.5°	278.1	266.4	255.6	245.5	235.9	227.6	222.7	217.9	214.9	211.0	209.3
55°	251.2	240.0	230.9	220.9	211.5	204.5	198.4	194.2	191.2	186.9	184.5
57.5°	226.0	215.9	205.1	196.5	186.7	180.9	175.8	170.0	166.4	163.0	160.7
60°	209.1	197.5	188.1	179.9	171.4	163.8	159.3	154.7	150.8	147.4	145.4
62.5°	191.3	181.3	172.4	163.4	155.7	149.0	143.8	139.9	136.5	134.4	132.2
65°	164.1	156.3	147.2	139.9	132.6	127.8	123.5	120.2	117.7	116.2	114.4
67.5°	139.2	131.5	123.6	116.4	111.5	107.8	105.0	102.2	101.0	99.0	97.8
70°	122.9	115.0	108.1	102.6	97.7	95.0	93.2	91.0	89.8	87.4	86.2
72.5°	105.2	99.5	94.4	89.9	86.0	83.6	81.3	78.7	76.7	74.1	72.8
75°	82.9	77.7	73.8	70.7	68.3	65.0	61.6	58.9	58.0	57.0	56.7
77.5°	61.3	58.1	55.2	52.7	49.7	47.2	46.5	45.9	45.7	45.2	45.2
80°	48.2	45.2	43.1	40.1	38.3	38.3	38.3	37.6	37.9	37.9	37.9
82.5°	35.9	33.0	31.9	30.8	30.5	30.7	30.7	30.8	30.7	31.1	30.9
85°	18.5	18.8	19.4	19.1	19.4	19.4	20.0	19.7	20.0	19.4	20.0
87.5°	7.5	8.4	8.9	9.3	9.7	9.7	10.1	10.1	10.4	10.5	10.5
90°	3.5	4.4	5.5	6.5	7.5	8.6	8.9	9.2	9.5	9.8	10.1
92.5°	5.7	6.0	6.8	7.5	8.3	9.1	9.6	10.1	10.6	11.2	11.4
95°	8.7	7.5	8.4	9.3	10.1	11.0	11.6	12.1	12.7	13.2	13.5
97.5°	37.8	34.2	28.5	22.8	17.2	11.5	12.1	12.8	13.4	14.0	14.3
100°	66.5	61.1	48.8	36.4	24.1	11.7	12.4	13.0	13.6	14.3	14.7
102.5°	83.5	77.3	63.8	50.4	36.9	23.4	21.5	19.5	17.5	15.6	14.7
105°	109.6	106.4	99.3	92.2	85.1	78.0	63.9	49.9	36.0	21.9	15.1
107.5°	137.4	138.4	139.5	140.6	141.7	142.8	132.6	122.3	112.1	101.8	91.4
110°	156.3	157.0	157.9	158.8	159.6	160.5	157.9	155.3	152.7	150.0	143.1



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.3	175.0	175.9	176.7	177.6	178.5	178.5	178.6	178.6	178.6	177.4
115°	200.8	201.5	202.2	202.9	203.6	204.3	205.1	205.9	206.7	207.5	208.0
117.5°	227.4	227.9	228.2	228.6	229.0	229.3	230.0	230.6	231.2	231.9	232.2
120°	244.2	244.6	244.9	245.1	245.3	245.6	246.2	246.8	247.5	248.1	248.4
122.5°	260.2	260.6	260.9	261.2	261.5	261.8	262.2	262.7	263.2	263.6	263.8
125°	283.0	283.4	283.8	284.1	284.4	284.7	284.9	285.0	285.2	285.3	285.5
127.5°	304.9	305.4	305.8	306.2	306.6	307.0	307.2	307.4	307.7	307.9	308.0
130°	318.6	319.1	319.4	319.7	320.0	320.3	320.6	320.9	321.2	321.5	321.6
132.5°	331.7	332.1	332.4	332.6	332.9	333.1	333.4	333.7	334.1	334.4	334.5
135°	351.0	351.4	351.7	352.0	352.4	352.7	352.9	353.2	353.4	353.6	353.6
137.5°	368.6	369.0	369.2	369.4	369.6	369.7	370.1	370.5	370.8	371.2	371.4
140°	379.5	379.9	380.1	380.3	380.6	380.8	381.1	381.4	381.8	382.1	382.1
142.5°	390.1	390.4	390.6	390.9	391.1	391.3	391.6	391.9	392.1	392.4	392.4
145°	405.1	405.4	405.6	405.8	405.9	406.1	406.2	406.4	406.5	406.7	406.8
147.5°	418.2	418.5	418.7	418.8	419.0	419.1	419.3	419.5	419.6	419.8	419.6
150°	426.3	426.4	426.6	426.7	426.9	427.1	427.2	427.4	427.5	427.7	427.7
152.5°	433.5	433.6	433.6	433.7	433.8	434.0	434.2	434.5	434.7	435.1	435.0
155°	443.2	443.1	443.2	443.3	443.4	443.5	443.9	444.3	444.7	445.0	445.0
157.5°	452.2	452.1	452.0	451.9	451.9	451.8	452.3	452.7	453.2	453.7	453.6
160°	457.0	456.9	456.9	456.8	456.7	456.6	457.1	457.6	458.0	458.5	458.5
162.5°	461.4	461.2	461.1	461.1	461.0	460.9	461.4	462.0	462.6	463.0	463.1
165°	467.1	466.9	466.8	466.8	466.7	466.6	467.2	467.9	468.5	469.1	469.1
167.5°	471.3	471.2	471.2	471.2	471.2	471.2	471.8	472.5	473.0	473.6	473.6
170°	473.9	473.7	473.7	473.7	473.7	473.7	474.4	475.0	475.6	476.3	476.3
172.5°	475.3	475.2	475.2	475.3	475.4	475.4	476.0	476.7	477.3	477.9	477.9
175°	477.4	477.3	477.4	477.4	477.5	477.6	478.2	478.7	479.3	479.8	479.8
177.5°	478.3	478.2	478.3	478.3	478.4	478.5	479.0	479.5	480.0	480.5	480.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	675.3	675.0	675.3	674.3	675.3	675.0	675.3	678.2	678.2	678.4	678.7
5°	628.4	628.0	627.2	624.5	627.2	628.0	628.4	629.3	631.7	636.0	634.8
7.5°	587.4	587.0	584.3	584.4	584.3	587.0	587.4	589.8	592.6	595.2	598.3
10°	563.2	563.5	559.8	557.7	559.8	563.5	563.2	565.3	569.2	571.3	573.5
12.5°	539.6	538.2	535.3	532.9	535.3	538.2	539.6	541.2	546.6	549.0	553.1
15°	508.5	505.5	498.2	498.8	498.2	505.5	508.5	507.3	512.8	515.8	517.1
17.5°	471.9	469.7	469.6	465.3	469.6	469.7	471.9	474.4	479.1	482.4	491.1
20°	450.6	449.1	449.6	445.4	449.6	449.1	450.6	455.4	458.4	462.7	469.7
22.5°	433.8	432.3	429.8	428.4	429.8	432.3	433.8	437.2	440.5	446.5	450.3
25°	409.3	406.9	404.5	406.0	404.5	406.9	409.3	411.1	417.2	419.9	425.4
27.5°	384.8	382.9	380.6	380.2	380.6	382.9	384.8	386.6	389.9	394.5	401.1
30°	369.2	367.4	366.2	364.7	366.2	367.4	369.2	370.7	374.1	379.0	383.8
32.5°	353.5	353.2	350.9	350.6	350.9	353.2	353.5	356.0	359.3	363.9	368.0
35°	332.9	331.1	330.4	330.7	330.4	331.1	332.9	334.1	337.1	341.4	345.3
37.5°	313.2	310.9	309.7	308.6	309.7	310.9	313.2	313.5	316.6	319.4	324.7
40°	299.2	296.8	296.1	295.6	296.1	296.8	299.2	298.9	302.2	304.4	309.2
42.5°	283.4	282.4	282.1	281.0	282.1	282.4	283.4	285.0	286.9	290.0	293.7
45°	261.8	261.6	259.8	260.3	259.8	261.6	261.8	262.8	266.1	268.2	271.6
47.5°	239.2	237.8	236.5	237.4	236.5	237.8	239.2	240.3	242.6	245.3	249.6
50°	223.6	223.0	220.3	220.9	220.3	223.0	223.6	224.8	226.3	229.7	233.6
52.5°	208.1	205.8	204.8	204.4	204.8	205.8	208.1	209.3	211.0	214.9	217.9
55°	182.4	179.6	178.4	177.8	178.4	179.6	182.4	184.5	186.9	191.2	194.2
57.5°	157.1	156.4	155.4	156.1	155.4	156.4	157.1	160.7	163.0	166.4	170.0
60°	142.3	142.3	142.3	142.0	142.3	142.3	142.3	145.4	147.4	150.8	154.7
62.5°	130.9	130.2	129.9	130.3	129.9	130.2	130.9	132.2	134.4	136.5	139.9
65°	113.4	113.2	111.9	111.7	111.9	113.2	113.4	114.4	116.2	117.7	120.2
67.5°	97.0	95.9	95.6	95.1	95.6	95.9	97.0	97.8	99.0	101.0	102.2
70°	84.7	84.1	82.2	82.5	82.2	84.1	84.7	86.2	87.4	89.8	91.0
72.5°	71.3	70.7	70.3	69.9	70.3	70.7	71.3	72.8	74.1	76.7	78.7
75°	56.4	56.2	55.8	57.0	55.8	56.2	56.4	56.7	57.0	58.0	58.9
77.5°	45.2	45.2	45.4	44.9	45.4	45.2	45.2	45.2	45.2	45.7	45.9
80°	37.9	37.9	37.6	37.6	37.6	37.9	37.9	37.9	37.9	37.9	37.6
82.5°	30.4	30.7	30.8	30.3	30.8	30.7	30.4	30.9	31.1	30.7	30.8
85°	20.0	19.7	20.4	20.0	20.4	19.7	20.0	20.0	19.4	20.0	19.7
87.5°	11.0	10.5	10.6	10.9	10.6	10.5	11.0	10.5	10.5	10.4	10.1
90°	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2
92.5°	11.6	11.6	11.7	11.8	11.7	11.6	11.6	11.4	11.2	10.6	10.1
95°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2	12.7	12.1
97.5°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.8
100°	14.7	14.8	14.9	15.0	14.9	14.8	14.7	14.7	14.3	13.6	13.0
102.5°	14.8	15.0	15.1	15.2	15.1	15.0	14.8	14.7	15.6	17.5	19.5
105°	15.2	15.4	15.5	15.7	15.5	15.4	15.2	15.1	21.9	36.0	49.9
107.5°	80.8	70.3	59.7	49.2	59.7	70.3	80.8	91.4	101.8	112.1	122.3
110°	131.8	120.5	109.2	97.9	109.2	120.5	131.8	143.1	150.0	152.7	155.3



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.1	172.7	170.3	167.9	170.3	172.7	175.1	177.4	178.6	178.6	178.6
115°	208.3	208.7	209.0	209.3	209.0	208.7	208.3	208.0	207.5	206.7	205.9
117.5°	232.3	232.3	232.4	232.5	232.4	232.3	232.3	232.2	231.9	231.2	230.6
120°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.1	247.5	246.8
122.5°	263.9	264.0	264.0	264.1	264.0	264.0	263.9	263.8	263.6	263.2	262.7
125°	285.7	285.8	286.0	286.1	286.0	285.8	285.7	285.5	285.3	285.2	285.0
127.5°	307.8	307.7	307.5	307.4	307.5	307.7	307.8	308.0	307.9	307.7	307.4
130°	321.5	321.3	321.2	321.0	321.2	321.3	321.5	321.6	321.5	321.2	320.9
132.5°	334.2	334.0	333.7	333.6	333.7	334.0	334.2	334.5	334.4	334.1	333.7
135°	353.4	353.2	352.9	352.7	352.9	353.2	353.4	353.6	353.6	353.4	353.2
137.5°	371.2	371.1	370.9	370.7	370.9	371.1	371.2	371.4	371.2	370.8	370.5
140°	382.0	381.8	381.7	381.5	381.7	381.8	382.0	382.1	382.1	381.8	381.4
142.5°	392.1	392.0	391.7	391.5	391.7	392.0	392.1	392.4	392.4	392.1	391.9
145°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.7	406.5	406.4
147.5°	419.3	418.9	418.6	418.2	418.6	418.9	419.3	419.6	419.8	419.6	419.5
150°	427.5	427.2	427.0	426.7	427.0	427.2	427.5	427.7	427.7	427.5	427.4
152.5°	434.7	434.3	434.0	433.6	434.0	434.3	434.7	435.0	435.1	434.7	434.5
155°	444.5	444.0	443.5	443.1	443.5	444.0	444.5	445.0	445.0	444.7	444.3
157.5°	453.0	452.4	451.8	451.1	451.8	452.4	453.0	453.6	453.7	453.2	452.7
160°	458.0	457.4	456.9	456.3	456.9	457.4	458.0	458.5	458.5	458.0	457.6
162.5°	462.6	462.1	461.6	461.1	461.6	462.1	462.6	463.1	463.0	462.6	462.0
165°	468.6	468.1	467.5	467.0	467.5	468.1	468.6	469.1	469.1	468.5	467.9
167.5°	473.0	472.5	471.8	471.2	471.8	472.5	473.0	473.6	473.6	473.0	472.5
170°	475.6	475.0	474.4	473.7	474.4	475.0	475.6	476.3	476.3	475.6	475.0
172.5°	477.2	476.5	475.9	475.2	475.9	476.5	477.2	477.9	477.9	477.3	476.7
175°	479.2	478.6	477.9	477.3	477.9	478.6	479.2	479.8	479.8	479.3	478.7
177.5°	479.8	479.2	478.6	477.9	478.6	479.2	479.8	480.5	480.5	480.0	479.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	676.5	679.9	683.3	686.4	691.3	693.5	696.6	697.8	701.5	706.9	711.2
5°	635.3	640.2	646.6	651.7	660.0	666.3	673.3	679.9	687.9	699.1	709.1
7.5°	600.5	605.2	612.9	622.5	631.5	640.6	650.1	659.2	670.5	686.6	702.5
10°	577.4	583.2	592.3	602.6	613.8	622.7	633.8	645.4	659.3	677.9	697.0
12.5°	557.5	561.8	572.4	582.2	594.8	606.1	617.1	630.6	646.5	666.2	689.2
15°	525.9	531.9	542.2	553.1	566.5	578.3	592.6	609.0	624.5	648.7	676.6
17.5°	494.0	503.3	514.0	526.3	536.2	552.5	568.0	584.8	603.9	629.6	660.2
20°	473.6	480.9	490.9	508.8	521.9	534.3	548.6	569.5	587.1	616.2	648.1
22.5°	456.4	461.8	472.9	487.7	503.0	517.3	531.9	551.8	573.5	601.2	635.7
25°	430.9	439.3	447.8	458.4	474.8	492.2	507.9	524.9	548.0	577.4	614.7
27.5°	405.9	413.6	422.0	435.1	447.5	463.7	480.1	499.6	524.3	555.5	593.3
30°	389.9	395.7	403.5	420.3	431.5	445.4	464.9	482.1	505.2	538.3	578.3
32.5°	373.4	380.9	389.4	402.3	416.1	429.4	447.1	465.9	489.4	522.0	563.0
35°	349.8	358.6	367.4	376.8	390.8	404.5	419.3	440.0	463.9	495.5	535.8
37.5°	328.2	335.3	342.5	354.1	367.3	380.3	394.2	414.5	437.1	471.2	508.2
40°	314.3	320.8	326.1	338.3	351.1	365.0	378.7	396.6	420.8	452.7	488.5
42.5°	299.3	305.1	312.6	322.5	336.3	348.0	361.7	378.6	401.4	433.8	465.2
45°	276.7	283.4	289.8	299.2	312.8	324.3	336.5	352.6	376.0	402.7	430.6
47.5°	253.3	259.9	267.2	276.3	288.2	299.9	312.0	326.3	347.6	373.8	392.6
50°	238.2	243.7	251.0	260.0	270.9	283.4	294.3	309.8	330.1	350.8	367.2
52.5°	222.7	227.6	235.9	245.5	255.6	266.4	278.1	291.4	309.7	329.2	342.1
55°	198.4	204.5	211.5	220.9	230.9	240.0	251.2	264.9	279.5	294.0	302.9
57.5°	175.8	180.9	186.7	196.5	205.1	215.9	226.0	236.7	250.2	261.1	266.9
60°	159.3	163.8	171.4	179.9	188.1	197.5	209.1	219.7	230.0	238.8	243.4
62.5°	143.8	149.0	155.7	163.4	172.4	181.3	191.3	200.3	209.4	217.0	220.1
65°	123.5	127.8	132.6	139.9	147.2	156.3	164.1	173.3	179.9	184.2	186.9
67.5°	105.0	107.8	111.5	116.4	123.6	131.5	139.2	146.2	151.9	154.7	157.2
70°	93.2	95.0	97.7	102.6	108.1	115.0	122.9	128.0	132.9	135.3	137.8
72.5°	81.3	83.6	86.0	89.9	94.4	99.5	105.2	111.5	114.2	117.1	118.6
75°	61.6	65.0	68.3	70.7	73.8	77.7	82.9	86.7	88.3	90.7	91.0
77.5°	46.5	47.2	49.7	52.7	55.2	58.1	61.3	64.9	65.6	66.9	67.7
80°	38.3	38.3	38.3	40.1	43.1	45.2	48.2	50.1	51.3	51.6	51.9
82.5°	30.7	30.7	30.5	30.8	31.9	33.0	35.9	37.9	38.9	38.7	38.0
85°	20.0	19.4	19.4	19.1	19.4	18.8	18.5	19.7	21.5	21.5	20.9
87.5°	10.1	9.7	9.7	9.3	8.9	8.4	7.5	7.6	7.4	8.2	7.8
90°	8.9	8.6	7.5	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.3
92.5°	9.6	9.1	8.3	7.5	6.8	6.0	5.7	5.9	6.2	6.4	6.7
95°	11.6	11.0	10.1	9.3	8.4	7.5	8.7	12.0	15.2	18.5	21.7
97.5°	12.1	11.5	17.2	22.8	28.5	34.2	37.8	39.3	40.7	42.1	43.6
100°	12.4	11.7	24.1	36.4	48.8	61.1	66.5	64.9	63.3	61.7	60.1
102.5°	21.5	23.4	36.9	50.4	63.8	77.3	83.5	82.4	81.2	80.1	78.9
105°	63.9	78.0	85.1	92.2	99.3	106.4	109.6	108.7	107.8	106.9	106.1
107.5°	132.6	142.8	141.7	140.6	139.5	138.4	137.4	136.7	136.1	135.4	134.7
110°	157.9	160.5	159.6	158.8	157.9	157.0	156.3	155.7	155.0	154.4	153.8



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	178.5	178.5	177.6	176.7	175.9	175.0	174.3	173.6	173.1	172.5	172.0
115°	205.1	204.3	203.6	202.9	202.2	201.5	200.8	200.3	199.9	199.4	198.9
117.5°	230.0	229.3	229.0	228.6	228.2	227.9	227.4	226.8	226.2	225.7	225.1
120°	246.2	245.6	245.3	245.1	244.9	244.6	244.2	243.4	242.7	242.0	241.3
122.5°	262.2	261.8	261.5	261.2	260.9	260.6	260.2	259.6	259.0	258.4	257.9
125°	284.9	284.7	284.4	284.1	283.8	283.4	283.0	282.3	281.7	281.1	280.4
127.5°	307.2	307.0	306.6	306.2	305.8	305.4	304.9	304.3	303.6	303.0	302.4
130°	320.6	320.3	320.0	319.7	319.4	319.1	318.6	318.0	317.3	316.7	316.1
132.5°	333.4	333.1	332.9	332.6	332.4	332.1	331.7	331.1	330.4	329.8	329.2
135°	352.9	352.7	352.4	352.0	351.7	351.4	351.0	350.5	350.1	349.6	349.1
137.5°	370.1	369.7	369.6	369.4	369.2	369.0	368.6	368.0	367.4	366.9	366.2
140°	381.1	380.8	380.6	380.3	380.1	379.9	379.5	379.1	378.6	378.1	377.6
142.5°	391.6	391.3	391.1	390.9	390.6	390.4	390.1	389.6	389.1	388.6	388.2
145°	406.2	406.1	405.9	405.8	405.6	405.4	405.1	404.6	404.0	403.5	402.9
147.5°	419.3	419.1	419.0	418.8	418.7	418.5	418.2	417.9	417.5	417.2	416.8
150°	427.2	427.1	426.9	426.7	426.6	426.4	426.3	426.0	425.8	425.6	425.3
152.5°	434.2	434.0	433.8	433.7	433.6	433.6	433.5	433.3	433.2	433.1	433.0
155°	443.9	443.5	443.4	443.3	443.2	443.1	443.2	443.4	443.5	443.6	443.8
157.5°	452.3	451.8	451.9	451.9	452.0	452.1	452.2	452.2	452.2	452.2	452.3
160°	457.1	456.6	456.7	456.8	456.9	456.9	457.0	457.1	457.2	457.2	457.3
162.5°	461.4	460.9	461.0	461.1	461.1	461.2	461.4	461.6	461.8	462.0	462.2
165°	467.2	466.6	466.7	466.8	466.8	466.9	467.1	467.3	467.5	467.8	468.0
167.5°	471.8	471.2	471.2	471.2	471.2	471.2	471.3	471.7	472.0	472.3	472.6
170°	474.4	473.7	473.7	473.7	473.7	473.7	473.9	474.2	474.5	474.8	475.2
172.5°	476.0	475.4	475.4	475.3	475.2	475.2	475.3	475.7	476.1	476.5	476.8
175°	478.2	477.6	477.5	477.4	477.4	477.3	477.4	477.8	478.2	478.6	479.0
177.5°	479.0	478.5	478.4	478.3	478.3	478.2	478.3	478.6	479.0	479.3	479.6
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	712.6	715.3	718.7	723.8	727.7	731.1	731.8	732.8	735.2	739.3	742.5
5°	717.3	724.3	735.5	746.4	758.3	767.9	777.1	783.5	789.5	802.2	812.5
7.5°	715.8	731.3	748.9	768.6	788.4	807.6	825.5	841.5	857.4	875.9	897.1
10°	714.9	733.1	756.7	781.9	809.5	836.5	862.6	883.0	906.7	927.9	954.9
12.5°	710.3	736.5	764.8	796.9	830.9	862.1	896.4	924.5	951.5	982.2	1013.6
15°	704.3	736.1	771.9	814.7	866.3	903.9	939.1	987.9	1021.3	1054.7	1099.6
17.5°	693.2	732.1	776.9	832.4	875.5	926.1	979.0	1017.6	1062.6	1109.6	1150.2
20°	684.5	729.8	779.8	834.4	889.3	944.3	995.5	1041.6	1088.1	1142.4	1175.8
22.5°	675.8	720.5	772.5	830.5	889.5	947.4	1005.4	1059.6	1111.8	1166.6	1209.3
25°	657.2	710.3	766.8	825.9	884.2	947.8	1017.1	1077.4	1142.1	1198.5	1238.9
27.5°	638.4	687.1	743.2	803.3	868.0	943.3	1024.7	1093.4	1158.1	1198.5	1211.2
30°	621.4	673.0	724.5	785.5	855.6	939.7	1026.2	1104.8	1157.9	1175.4	1162.4
32.5°	604.2	650.9	702.0	764.5	838.9	930.7	1028.1	1098.0	1130.0	1116.5	1063.3
35°	573.8	615.9	665.4	727.9	813.5	925.7	1020.1	1067.5	1059.5	983.7	883.5
37.5°	541.2	575.6	621.4	686.7	787.1	906.0	985.6	992.6	924.3	807.9	692.2
40°	515.5	546.4	593.5	661.8	766.8	886.6	950.9	922.7	816.8	687.2	590.7
42.5°	490.5	516.6	561.9	635.6	747.3	860.2	899.2	837.7	715.6	593.0	505.3
45°	448.1	472.7	518.2	593.8	707.6	809.5	804.4	697.6	575.3	476.7	403.9
47.5°	408.0	429.4	472.2	549.3	660.9	733.6	685.4	571.8	468.0	389.0	337.0
50°	379.6	400.8	443.3	519.4	623.5	676.6	607.8	498.2	403.2	337.7	296.4
52.5°	352.4	373.1	412.0	486.2	578.4	610.1	536.1	434.6	355.5	298.9	263.4
55°	314.3	330.1	365.0	436.0	504.9	512.1	437.2	352.3	287.0	247.6	223.3
57.5°	275.6	289.1	323.6	380.2	428.5	424.7	353.6	280.2	236.2	206.9	189.3
60°	250.3	263.6	294.0	342.5	379.0	366.2	301.0	241.9	204.2	182.7	168.7
62.5°	226.8	237.2	265.6	301.0	327.3	312.8	257.3	208.3	178.5	160.3	149.2
65°	192.7	201.1	223.9	242.4	257.0	243.0	196.9	163.0	141.4	128.7	121.0
67.5°	160.3	165.6	180.1	186.7	197.0	181.7	148.1	125.3	113.0	102.3	97.0
70°	139.9	143.9	151.4	156.9	159.6	143.9	118.9	102.3	92.0	84.4	81.0
72.5°	119.5	122.9	124.5	129.0	127.5	112.7	95.6	82.4	74.9	69.8	65.5
75°	91.3	92.8	91.3	89.5	85.6	75.3	63.5	56.7	51.3	48.9	47.4
77.5°	66.5	66.1	64.0	61.2	54.4	47.9	41.6	39.3	37.0	35.6	35.2
80°	51.3	50.1	48.2	43.7	37.9	33.4	31.8	30.3	29.5	27.9	27.6
82.5°	38.2	37.5	34.4	30.6	26.5	24.4	23.1	22.6	21.6	20.9	20.8
85°	20.4	19.4	16.1	13.9	13.4	12.8	12.4	12.4	11.2	10.9	10.9
87.5°	6.8	5.5	5.4	4.8	5.0	4.8	5.1	4.9	4.8	5.1	4.8
90°	1.1	1.9	2.7	3.5	4.4	5.5	6.5	7.5	8.6	8.9	9.2
92.5°	6.4	6.2	5.9	5.7	6.0	6.8	7.5	8.3	9.1	9.6	10.1
95°	18.5	15.2	12.0	8.7	7.5	8.4	9.3	10.1	11.0	11.6	12.1
97.5°	42.1	40.7	39.3	37.8	34.2	28.5	22.8	17.2	11.5	12.1	12.8
100°	61.7	63.3	64.9	66.5	61.1	48.8	36.4	24.1	11.7	12.4	13.0
102.5°	80.1	81.2	82.4	83.5	77.3	63.8	50.4	36.9	23.4	21.5	19.5
105°	106.9	107.8	108.7	109.6	106.4	99.3	92.2	85.1	78.0	63.9	49.9
107.5°	135.4	136.1	136.7	137.4	138.4	139.5	140.6	141.7	142.8	132.6	122.3
110°	154.4	155.0	155.7	156.3	157.0	157.9	158.8	159.6	160.5	157.9	155.3



TEST NUMBER: P332410-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	172.5	173.1	173.6	174.3	175.0	175.9	176.7	177.6	178.5	178.5	178.6
115°	199.4	199.9	200.3	200.8	201.5	202.2	202.9	203.6	204.3	205.1	205.9
117.5°	225.7	226.2	226.8	227.4	227.9	228.2	228.6	229.0	229.3	230.0	230.6
120°	242.0	242.7	243.4	244.2	244.6	244.9	245.1	245.3	245.6	246.2	246.8
122.5°	258.4	259.0	259.6	260.2	260.6	260.9	261.2	261.5	261.8	262.2	262.7
125°	281.1	281.7	282.3	283.0	283.4	283.8	284.1	284.4	284.7	284.9	285.0
127.5°	303.0	303.6	304.3	304.9	305.4	305.8	306.2	306.6	307.0	307.2	307.4
130°	316.7	317.3	318.0	318.6	319.1	319.4	319.7	320.0	320.3	320.6	320.9
132.5°	329.8	330.4	331.1	331.7	332.1	332.4	332.6	332.9	333.1	333.4	333.7
135°	349.6	350.1	350.5	351.0	351.4	351.7	352.0	352.4	352.7	352.9	353.2
137.5°	366.9	367.4	368.0	368.6	369.0	369.2	369.4	369.6	369.7	370.1	370.5
140°	378.1	378.6	379.1	379.5	379.9	380.1	380.3	380.6	380.8	381.1	381.4
142.5°	388.6	389.1	389.6	390.1	390.4	390.6	390.9	391.1	391.3	391.6	391.9
145°	403.5	404.0	404.6	405.1	405.4	405.6	405.8	405.9	406.1	406.2	406.4
147.5°	417.2	417.5	417.9	418.2	418.5	418.7	418.8	419.0	419.1	419.3	419.5
150°	425.6	425.8	426.0	426.3	426.4	426.6	426.7	426.9	427.1	427.2	427.4
152.5°	433.1	433.2	433.3	433.5	433.6	433.6	433.7	433.8	434.0	434.2	434.5
155°	443.6	443.5	443.4	443.2	443.1	443.2	443.3	443.4	443.5	443.9	444.3
157.5°	452.2	452.2	452.2	452.2	452.1	452.0	451.9	451.9	451.8	452.3	452.7
160°	457.2	457.2	457.1	457.0	456.9	456.9	456.8	456.7	456.6	457.1	457.6
162.5°	462.0	461.8	461.6	461.4	461.2	461.1	461.1	461.0	460.9	461.4	462.0
165°	467.8	467.5	467.3	467.1	466.9	466.8	466.8	466.7	466.6	467.2	467.9
167.5°	472.3	472.0	471.7	471.3	471.2	471.2	471.2	471.2	471.2	471.8	472.5
170°	474.8	474.5	474.2	473.9	473.7	473.7	473.7	473.7	473.7	474.4	475.0
172.5°	476.5	476.1	475.7	475.3	475.2	475.2	475.3	475.4	475.4	476.0	476.7
175°	478.6	478.2	477.8	477.4	477.3	477.4	477.4	477.5	477.6	478.2	478.7
177.5°	479.3	479.0	478.6	478.3	478.2	478.3	478.3	478.4	478.5	479.0	479.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	747.7	747.7	748.6	752.3	752.7	755.9	754.9
5°	821.7	827.4	829.6	838.7	844.1	846.5	841.7
7.5°	912.2	928.4	936.2	945.7	954.1	956.7	950.1
10°	978.3	995.2	1009.5	1018.3	1026.5	1031.9	1038.9
12.5°	1042.0	1063.0	1076.5	1088.9	1097.3	1104.3	1105.4
15°	1111.4	1143.0	1167.0	1184.6	1193.3	1197.9	1196.1
17.5°	1181.4	1210.6	1227.7	1245.6	1257.8	1258.5	1258.9
20°	1221.0	1249.5	1269.2	1282.5	1296.2	1295.6	1298.6
22.5°	1247.4	1269.9	1285.0	1294.7	1299.3	1297.0	1297.7
25°	1259.8	1266.5	1263.8	1248.2	1244.4	1230.1	1232.5
27.5°	1196.0	1164.4	1131.8	1089.7	1056.6	1030.2	1031.5
30°	1109.3	1053.4	989.8	936.4	888.4	875.0	846.5
32.5°	988.2	904.4	829.8	780.1	738.9	727.7	702.8
35°	782.8	701.5	624.7	578.6	560.4	535.0	534.6
37.5°	608.5	536.9	496.3	461.7	443.5	428.1	426.6
40°	511.9	456.1	425.4	400.5	382.6	371.1	368.4
42.5°	444.4	399.3	370.5	355.1	341.4	335.4	331.0
45°	362.9	332.6	312.5	298.6	292.2	287.6	285.2
47.5°	303.6	283.2	269.6	260.3	255.1	250.3	251.6
50°	271.2	254.6	244.5	235.8	231.8	228.5	228.8
52.5°	245.3	230.3	222.2	215.9	211.0	208.6	207.4
55°	208.2	198.8	190.5	186.0	183.2	179.9	179.0
57.5°	177.5	170.2	163.6	158.4	157.8	154.6	155.0
60°	157.2	151.1	145.6	142.9	140.8	138.1	138.9
62.5°	140.5	135.3	130.3	128.1	126.0	124.0	124.4
65°	115.0	110.1	107.1	105.9	105.0	104.1	103.1
67.5°	91.7	88.6	86.7	84.1	82.3	82.0	81.0
70°	77.1	73.1	69.8	66.5	65.5	65.2	65.5
72.5°	61.8	59.3	58.4	56.7	56.6	55.8	56.3
75°	46.4	45.6	44.9	43.7	43.7	43.7	43.7
77.5°	34.2	33.7	33.4	33.0	32.8	32.3	32.3
80°	26.7	26.4	25.8	25.8	25.5	25.8	25.5
82.5°	20.1	20.1	19.5	19.5	19.2	19.0	19.2
85°	10.3	10.0	10.6	10.0	10.3	9.7	10.3
87.5°	4.8	4.9	4.7	4.7	4.5	5.0	4.6
90°	9.5	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	10.6	11.2	11.4	11.6	11.6	11.7	11.8
95°	12.7	13.2	13.5	13.5	13.5	13.5	13.5
97.5°	13.4	14.0	14.3	14.4	14.5	14.6	14.7
100°	13.6	14.3	14.7	14.7	14.8	14.9	15.0
102.5°	17.5	15.6	14.7	14.8	15.0	15.1	15.2
105°	36.0	21.9	15.1	15.2	15.4	15.5	15.7
107.5°	112.1	101.8	91.4	80.8	70.3	59.7	49.2
110°	152.7	150.0	143.1	131.8	120.5	109.2	97.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	178.6	178.6	177.4	175.1	172.7	170.3	167.9
115°	206.7	207.5	208.0	208.3	208.7	209.0	209.3
117.5°	231.2	231.9	232.2	232.3	232.3	232.4	232.5
120°	247.5	248.1	248.4	248.4	248.4	248.4	248.4
122.5°	263.2	263.6	263.8	263.9	264.0	264.0	264.1
125°	285.2	285.3	285.5	285.7	285.8	286.0	286.1
127.5°	307.7	307.9	308.0	307.8	307.7	307.5	307.4
130°	321.2	321.5	321.6	321.5	321.3	321.2	321.0
132.5°	334.1	334.4	334.5	334.2	334.0	333.7	333.6
135°	353.4	353.6	353.6	353.4	353.2	352.9	352.7
137.5°	370.8	371.2	371.4	371.2	371.1	370.9	370.7
140°	381.8	382.1	382.1	382.0	381.8	381.7	381.5
142.5°	392.1	392.4	392.4	392.1	392.0	391.7	391.5
145°	406.5	406.7	406.8	406.8	406.8	406.8	406.8
147.5°	419.6	419.8	419.6	419.3	418.9	418.6	418.2
150°	427.5	427.7	427.7	427.5	427.2	427.0	426.7
152.5°	434.7	435.1	435.0	434.7	434.3	434.0	433.6
155°	444.7	445.0	445.0	444.5	444.0	443.5	443.1
157.5°	453.2	453.7	453.6	453.0	452.4	451.8	451.1
160°	458.0	458.5	458.5	458.0	457.4	456.9	456.3
162.5°	462.6	463.0	463.1	462.6	462.1	461.6	461.1
165°	468.5	469.1	469.1	468.6	468.1	467.5	467.0
167.5°	473.0	473.6	473.6	473.0	472.5	471.8	471.2
170°	475.6	476.3	476.3	475.6	475.0	474.4	473.7
172.5°	477.3	477.9	477.9	477.2	476.5	475.9	475.2
175°	479.3	479.8	479.8	479.2	478.6	477.9	477.3
177.5°	480.0	480.5	480.5	479.8	479.2	478.6	477.9
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0

(END OF REPORT)