

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: P333015-927

Luminaire Tested: **S124RDIW-S350D470U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333015-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D470U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

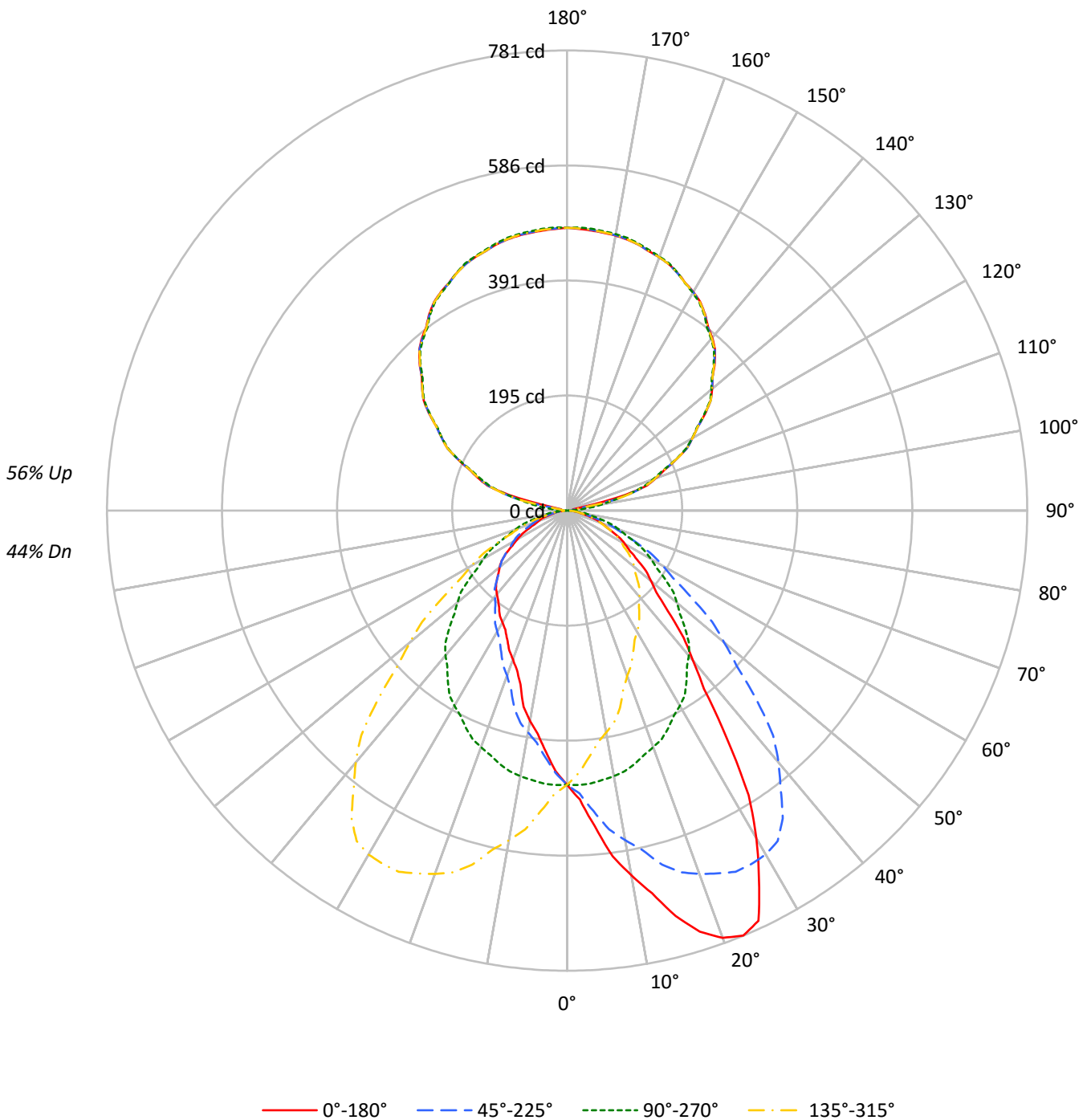
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32	28				
4	74	64	56	50	68	59	52	47	49	45	41	41	37	34	33	30	28	24				
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21				
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17				
8	54	42	34	29	49	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	38	31	26	46	36	29	25	30	25	22	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	19	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3756	3756	3756	3756
5°	4357	3767	3331	3767
10°	5155	3751	2972	3751
15°	5954	3717	2554	3717
20°	6630	3669	2310	3669
25°	6844	3622	2144	3622
30°	5991	3566	2045	3566
35°	4664	3481	1985	3481
40°	3497	3385	1952	3385
45°	2762	3230	1934	3230
50°	2331	3052	1879	3052
55°	2031	2856	1779	2856
60°	1828	2651	1574	2651
65°	1612	2432	1354	2432
70°	1452	2205	1220	2205
75°	1216	1953	1042	1953
80°	1027	1664	976	1664
85°	861	1306	861	1306



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.7
10°-20°	136.0	5.1
20°-30°	212.7	8.0
30°-40°	236.5	8.9
40°-50°	209.8	7.9
50°-60°	163.5	6.1
60°-70°	107.0	4.0
70°-80°	52.6	2.0
80°-90°	14.4	0.5
90°-100°	16.4	0.6
100°-110°	104.7	3.9
110°-120°	200.2	7.5
120°-130°	254.2	9.5
130°-140°	272.0	10.2
140°-150°	254.3	9.6
150°-160°	205.1	7.7
160°-170°	132.3	5.0
170°-180°	45.6	1.7
0°-30°	393.8	14.8
0°-40°	630.3	23.7
0°-60°	1003.6	37.7
0°-90°	1177.6	44.2
90°-120°	321.3	12.1
90°-150°	1101.8	41.4
90°-180°	1485.0	55.8
0°-180°	2662.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	465	465	465	465	465	
5°	538	465	411	465	538	54
15°	712	445	306	445	712	203
25°	768	407	241	407	768	341
35°	473	353	201	353	473	297
45°	242	283	169	283	242	192
55°	144	203	126	203	144	131
65°	84	127	71	127	84	85
75°	39	63	33	63	39	43
85°	9	14	9	14	9	11
90°	11	1	11	1	11	5
95°	10	20	10	20	10	8
105°	102	108	102	108	102	89
115°	203	202	203	202	203	201
125°	286	284	286	284	286	255
135°	354	352	354	352	354	273
145°	408	406	408	406	408	255
155°	444	445	444	445	444	205
165°	467	469	467	469	467	132
175°	477	480	477	480	477	45
180°	480	480	480	480	480	



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	490.8	492.2	490.8	490.7	489.2	488.7	488.1	486.2	482.6	480.5	480.9
5°	537.7	542.4	539.8	539.4	535.3	531.2	528.5	522.5	516.1	511.8	508.3
7.5°	591.9	594.6	592.9	590.3	583.7	579.9	573.8	565.9	554.4	545.7	537.7
10°	628.8	631.1	630.3	625.4	620.6	610.6	605.0	594.0	579.5	568.1	557.4
12.5°	665.1	667.5	660.9	661.2	651.9	644.0	635.2	621.2	604.6	589.9	576.5
15°	712.4	709.4	709.4	705.7	695.4	684.5	675.3	660.7	639.7	622.1	603.5
17.5°	749.5	750.5	749.0	740.1	732.1	720.8	703.9	686.9	667.4	643.7	624.8
20°	771.7	771.7	770.0	764.0	753.5	741.5	723.3	704.7	680.0	656.2	634.9
22.5°	780.7	781.3	779.3	774.4	764.9	753.2	737.7	718.8	693.3	666.5	640.1
25°	768.3	771.9	772.2	771.0	768.1	761.0	747.7	728.4	705.5	676.4	647.9
27.5°	705.4	709.9	713.8	720.3	729.0	733.4	734.0	724.2	704.3	676.3	647.6
30°	642.7	646.4	658.6	674.5	686.9	698.2	708.0	710.6	699.3	674.2	644.0
32.5°	573.1	578.2	590.4	607.5	628.1	647.2	669.1	680.2	679.9	664.9	637.0
35°	473.2	477.0	488.2	506.2	530.9	559.3	594.0	620.9	639.3	638.0	620.9
37.5°	381.7	385.9	397.2	412.2	436.2	471.2	504.8	542.0	575.9	595.0	589.3
40°	331.8	332.0	343.1	358.5	381.0	411.5	448.1	489.3	527.2	558.2	564.1
42.5°	292.6	292.6	299.9	316.5	332.6	361.4	396.3	437.3	481.6	517.4	533.2
45°	241.9	243.5	249.5	259.4	272.2	296.6	324.6	362.6	412.3	454.6	481.1
47.5°	204.8	207.3	211.1	219.2	229.3	245.6	268.7	302.9	343.3	389.9	427.5
50°	185.6	186.0	190.8	195.4	204.1	217.1	237.3	265.9	303.0	347.8	389.6
52.5°	169.1	169.1	172.0	177.7	184.8	194.9	211.3	237.2	270.1	310.3	353.5
55°	144.3	145.3	147.6	152.0	157.5	164.6	177.5	197.0	222.9	257.2	296.4
57.5°	125.6	126.0	127.8	129.7	134.7	139.9	149.6	163.1	184.9	213.0	249.5
60°	113.2	113.4	114.0	116.8	120.7	125.6	132.2	143.6	162.0	187.7	216.6
62.5°	101.2	101.6	102.4	104.5	107.6	110.9	117.8	127.0	142.2	164.1	190.1
65°	84.4	84.5	85.9	86.6	89.0	92.1	97.1	103.3	113.8	132.2	151.9
67.5°	70.5	70.5	70.6	71.6	73.3	75.3	78.3	83.3	91.2	102.4	119.8
70°	61.5	61.5	61.9	62.4	63.4	65.0	66.8	70.5	76.3	85.5	98.8
72.5°	53.1	53.2	53.6	53.7	54.2	55.6	56.9	59.3	63.5	70.5	81.3
75°	39.0	39.5	40.5	41.3	42.2	42.0	43.3	44.8	46.1	50.2	56.4
77.5°	29.0	28.8	28.8	29.5	29.5	29.8	30.7	31.8	32.9	34.8	37.0
80°	22.1	22.1	22.7	22.9	22.7	22.9	23.8	24.4	24.7	25.5	27.6
82.5°	16.7	17.0	16.9	17.0	17.1	17.3	18.1	18.2	18.6	18.9	19.7
85°	9.3	9.6	9.7	9.3	9.3	9.3	9.7	9.9	10.3	10.1	10.5
87.5°	5.5	5.3	5.4	5.4	5.5	5.2	5.3	5.5	5.1	5.1	5.1
90°	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9	8.4	7.9	7.3
92.5°	9.9	9.9	9.8	9.8	9.7	9.5	9.0	8.6	8.1	7.6	7.0
95°	10.4	10.3	10.2	10.1	10.1	9.8	9.3	8.9	8.4	7.9	7.8
97.5°	10.1	10.0	9.9	9.8	9.7	9.7	9.6	9.6	9.5	9.5	18.4
100°	10.1	10.0	9.9	9.8	9.7	10.4	11.7	13.1	14.4	15.8	26.8
102.5°	10.4	10.3	10.3	10.3	10.3	17.6	32.2	46.8	61.5	76.1	77.6
105°	102.3	105.2	108.1	110.9	113.8	114.9	114.2	113.4	112.7	112.0	111.6
107.5°	142.6	142.3	142.0	141.7	141.4	141.1	140.7	140.4	140.0	139.7	139.1
110°	160.1	159.9	159.6	159.4	159.1	159.0	158.8	158.7	158.5	158.4	157.9



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	177.6	177.4	177.1	176.7	176.4	176.3	176.3	176.3	176.4	176.4	176.2
115°	203.2	203.2	203.2	203.2	203.2	203.1	203.0	202.8	202.6	202.5	202.6
117.5°	229.2	229.3	229.3	229.3	229.3	229.3	229.4	229.4	229.4	229.5	229.3
120°	245.6	245.7	245.9	246.1	246.2	246.2	246.1	245.9	245.7	245.6	245.7
122.5°	261.7	261.8	262.0	262.1	262.3	262.3	262.2	262.1	262.1	262.0	261.8
125°	285.7	285.7	285.6	285.5	285.4	285.3	285.0	284.8	284.6	284.3	284.5
127.5°	307.0	307.0	307.0	307.1	307.2	307.3	307.3	307.4	307.4	307.4	307.1
130°	321.3	321.3	321.3	321.3	321.3	321.3	321.2	321.2	321.1	321.0	320.8
132.5°	334.5	334.6	334.7	334.7	334.8	334.8	334.7	334.6	334.5	334.5	334.1
135°	354.3	354.2	354.0	353.9	353.7	353.6	353.4	353.2	353.1	352.9	352.6
137.5°	371.3	371.4	371.4	371.5	371.5	371.5	371.2	371.1	370.9	370.7	370.3
140°	383.1	383.0	382.9	382.9	382.8	382.6	382.4	382.1	381.9	381.7	381.5
142.5°	392.8	392.8	392.8	392.8	392.8	392.7	392.5	392.3	392.1	392.0	391.9
145°	407.8	407.7	407.5	407.3	407.2	407.1	407.0	406.9	406.9	406.8	406.8
147.5°	420.3	420.2	420.1	420.0	419.9	419.9	419.8	419.8	419.7	419.6	419.7
150°	428.3	428.3	428.2	428.1	428.0	427.9	427.9	427.9	427.9	427.9	428.0
152.5°	435.2	435.2	435.3	435.4	435.4	435.4	435.2	435.1	435.0	434.8	435.0
155°	444.5	444.7	445.0	445.2	445.4	445.4	445.0	444.7	444.4	444.1	444.3
157.5°	452.3	452.7	453.0	453.4	453.8	453.8	453.4	453.0	452.7	452.3	452.5
160°	457.4	457.9	458.4	458.8	459.3	459.3	458.8	458.4	457.9	457.4	457.5
162.5°	461.4	461.9	462.5	463.0	463.6	463.6	463.1	462.6	462.2	461.7	461.8
165°	467.1	467.8	468.5	469.2	469.9	470.0	469.4	468.7	468.1	467.5	467.5
167.5°	471.3	472.1	472.9	473.7	474.5	474.6	473.9	473.2	472.5	471.7	471.8
170°	473.9	474.7	475.5	476.3	477.1	477.2	476.5	475.9	475.2	474.6	474.5
172.5°	475.3	476.2	477.1	477.9	478.8	478.9	478.2	477.6	477.0	476.3	476.3
175°	477.1	478.1	479.0	480.0	480.9	481.1	480.4	479.7	479.0	478.2	478.2
177.5°	478.3	479.0	479.8	480.6	481.3	481.5	480.9	480.5	479.9	479.4	479.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	479.4	477.4	476.3	473.9	471.0	469.5	468.2	466.2	463.7	461.0	459.1
5°	503.7	499.2	493.6	486.9	480.9	475.1	470.0	464.9	459.1	453.1	447.2
7.5°	528.7	519.9	510.3	499.2	488.5	478.7	469.7	461.1	451.4	442.6	434.7
10°	546.1	534.2	520.9	506.8	492.7	480.5	468.5	457.6	445.7	435.0	426.0
12.5°	560.2	546.1	530.1	512.6	495.7	480.9	467.1	453.0	439.3	427.8	415.7
15°	583.6	564.4	542.8	521.7	499.9	479.7	461.2	444.7	429.1	412.8	401.4
17.5°	599.8	576.8	550.6	525.4	499.5	475.8	454.4	434.7	416.8	400.1	386.5
20°	609.3	584.0	554.9	526.2	497.2	471.9	448.9	427.1	408.5	390.5	376.4
22.5°	614.7	586.7	554.9	524.9	494.8	467.4	442.1	419.5	399.3	381.2	365.7
25°	616.5	586.5	554.1	519.5	486.6	457.5	431.2	406.6	384.1	366.1	349.7
27.5°	614.0	578.7	545.5	510.1	476.0	445.4	417.9	392.1	369.6	350.2	333.3
30°	610.5	572.6	536.9	500.2	465.7	436.3	407.2	382.5	359.0	339.0	321.9
32.5°	602.6	565.1	526.7	489.1	454.2	423.8	396.2	371.4	348.4	327.9	309.7
35°	587.2	549.1	507.6	468.9	434.6	403.1	377.2	353.2	331.3	309.3	290.3
37.5°	566.8	528.0	486.6	444.3	409.9	380.2	356.5	333.9	312.5	292.5	271.3
40°	547.6	512.2	469.4	427.5	392.2	363.5	341.6	321.2	299.6	279.7	258.6
42.5°	524.4	494.2	451.0	408.8	374.1	346.4	326.0	306.0	286.4	267.1	245.0
45°	485.6	462.7	422.2	381.8	346.7	319.2	300.6	282.9	265.7	247.3	226.5
47.5°	441.1	425.6	390.7	349.2	316.8	292.2	274.0	259.6	245.0	226.6	208.4
50°	410.2	400.3	366.5	328.7	297.7	275.0	256.5	243.0	230.8	213.2	196.9
52.5°	377.2	371.9	343.4	307.2	277.3	255.1	239.2	227.1	214.8	200.1	184.9
55°	326.9	329.8	305.6	274.3	246.1	227.4	213.0	202.9	192.3	180.0	168.2
57.5°	275.6	285.9	269.7	242.2	215.8	198.4	187.6	179.1	170.2	160.0	149.9
60°	244.9	253.5	244.3	220.1	197.0	180.9	170.8	164.2	155.4	146.1	138.4
62.5°	214.8	224.1	218.6	199.1	177.7	163.8	154.9	148.8	142.2	134.0	126.0
65°	177.2	183.2	180.5	167.1	151.9	140.1	131.8	127.3	121.3	115.3	108.2
67.5°	135.7	147.3	145.8	138.6	125.5	116.2	110.8	106.9	101.4	97.0	92.1
70°	111.5	122.2	122.1	116.2	109.1	100.5	96.7	93.4	88.5	84.2	80.2
72.5°	91.3	101.1	102.6	98.1	93.2	86.7	83.1	80.8	76.0	73.1	69.9
75°	63.9	71.1	73.0	73.0	70.7	67.3	64.1	62.6	59.3	56.6	54.7
77.5°	41.9	46.4	49.4	50.0	50.4	49.2	46.6	45.6	42.9	42.1	40.2
80°	29.6	32.6	36.0	37.2	38.0	37.7	36.6	35.8	33.4	32.4	31.7
82.5°	20.4	22.1	24.9	27.4	27.1	28.1	27.1	26.5	24.6	24.3	23.6
85°	10.7	10.9	11.2	12.9	13.9	14.3	14.4	14.1	13.5	13.5	12.2
87.5°	4.9	4.7	4.8	4.7	4.7	5.1	5.3	5.3	5.1	4.8	4.5
90°	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1	2.0	2.9	3.7
92.5°	6.3	5.7	5.1	4.8	4.7	4.6	4.6	4.5	4.6	4.6	4.7
95°	7.8	7.7	7.6	8.9	11.6	14.3	17.0	19.7	17.0	14.3	11.6
97.5°	27.3	36.2	45.1	48.7	47.0	45.3	43.6	41.9	43.6	45.3	47.0
100°	37.8	48.8	59.8	64.6	63.2	61.8	60.3	58.9	60.3	61.8	63.2
102.5°	79.0	80.4	81.8	82.1	81.0	79.9	78.9	77.9	78.9	79.9	81.0
105°	111.2	110.8	110.4	110.0	109.5	109.0	108.5	108.1	108.5	109.0	109.5
107.5°	138.6	138.0	137.5	137.1	136.9	136.7	136.4	136.2	136.4	136.7	136.9
110°	157.4	156.9	156.4	156.1	155.8	155.6	155.3	155.1	155.3	155.6	155.8



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	175.9	175.8	175.5	175.2	174.8	174.4	173.9	173.5	173.9	174.4	174.8
115°	202.6	202.7	202.8	202.7	202.5	202.2	202.0	201.8	202.0	202.2	202.5
117.5°	229.1	228.9	228.8	228.5	228.2	227.9	227.6	227.3	227.6	227.9	228.2
120°	245.7	245.8	245.9	245.7	245.4	245.1	244.8	244.5	244.8	245.1	245.4
122.5°	261.7	261.6	261.5	261.3	261.2	260.9	260.8	260.5	260.8	260.9	261.2
125°	284.6	284.8	284.9	284.9	284.6	284.2	283.9	283.6	283.9	284.2	284.6
127.5°	306.7	306.3	306.0	305.8	305.7	305.6	305.5	305.5	305.5	305.6	305.7
130°	320.5	320.3	320.0	319.9	319.8	319.7	319.6	319.5	319.6	319.7	319.8
132.5°	333.8	333.6	333.3	333.0	332.9	332.7	332.6	332.5	332.6	332.7	332.9
135°	352.3	352.0	351.6	351.5	351.6	351.6	351.7	351.8	351.7	351.6	351.6
137.5°	370.0	369.6	369.3	369.2	369.1	369.1	369.0	369.0	369.0	369.1	369.1
140°	381.4	381.1	381.0	380.8	380.6	380.5	380.3	380.2	380.3	380.5	380.6
142.5°	391.8	391.7	391.6	391.4	391.1	390.9	390.5	390.2	390.5	390.9	391.1
145°	406.8	406.8	406.8	406.6	406.4	406.2	405.9	405.7	405.9	406.2	406.4
147.5°	419.8	419.9	419.9	419.8	419.3	418.8	418.4	418.0	418.4	418.8	419.3
150°	428.1	428.2	428.3	428.2	427.9	427.5	427.2	426.9	427.2	427.5	427.9
152.5°	435.1	435.3	435.4	435.4	435.1	434.8	434.6	434.4	434.6	434.8	435.1
155°	444.6	444.8	445.0	445.1	445.0	445.0	444.9	444.8	444.9	445.0	445.0
157.5°	452.7	453.0	453.3	453.4	453.5	453.5	453.6	453.7	453.6	453.5	453.5
160°	457.6	457.6	457.7	457.9	458.1	458.4	458.6	458.8	458.6	458.4	458.1
162.5°	461.8	461.9	462.0	462.2	462.5	462.8	463.1	463.4	463.1	462.8	462.5
165°	467.5	467.5	467.5	467.6	468.0	468.4	468.8	469.2	468.8	468.4	468.0
167.5°	471.8	471.9	471.9	472.1	472.6	473.0	473.4	473.8	473.4	473.0	472.6
170°	474.4	474.4	474.3	474.5	475.0	475.5	475.9	476.4	475.9	475.5	475.0
172.5°	476.2	476.1	476.0	476.3	476.7	477.2	477.7	478.2	477.7	477.2	476.7
175°	478.1	478.0	477.9	478.1	478.6	479.0	479.5	480.0	479.5	479.0	478.6
177.5°	479.2	479.0	479.0	479.1	479.5	480.0	480.5	480.9	480.5	480.0	479.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	456.9	455.4	453.5	451.2	448.5	446.2	445.0	446.0	446.5	445.2	445.0
5°	443.0	438.3	434.6	429.0	424.5	420.7	418.1	416.9	417.3	414.3	413.6
7.5°	427.4	421.8	415.7	409.0	402.8	397.3	394.4	392.8	389.6	388.2	386.0
10°	417.3	409.9	403.9	395.9	388.8	382.3	379.1	376.4	373.3	371.8	368.6
12.5°	407.0	398.3	391.7	383.5	376.2	368.4	365.3	360.4	355.5	352.3	348.2
15°	392.4	381.9	373.8	364.1	355.5	346.5	338.4	329.4	326.1	318.9	314.8
17.5°	375.3	364.7	354.7	341.7	328.4	317.1	308.6	299.9	294.8	290.3	288.1
20°	364.1	354.3	340.5	325.3	310.5	298.1	291.1	285.5	279.9	276.7	274.5
22.5°	353.5	341.0	324.9	308.5	293.7	284.0	278.1	272.4	267.8	264.7	261.7
25°	335.6	319.2	302.2	283.4	273.4	264.9	258.6	253.8	251.0	247.1	245.6
27.5°	317.3	297.5	278.7	266.1	255.6	247.8	242.2	238.8	235.2	232.7	230.7
30°	303.2	283.1	266.3	254.2	243.5	237.2	232.7	228.5	225.7	223.6	222.2
32.5°	289.2	269.2	255.0	242.1	233.6	227.4	222.6	219.5	217.3	214.7	213.7
35°	269.0	251.2	238.8	227.2	218.6	213.0	209.2	206.0	204.1	203.4	202.9
37.5°	249.6	235.0	221.7	212.2	204.5	200.1	195.7	194.1	192.8	191.5	192.1
40°	237.3	223.6	211.8	201.8	195.5	190.7	188.1	186.2	185.1	185.1	185.1
42.5°	226.7	213.3	201.8	192.7	186.6	182.4	179.5	177.9	177.5	177.4	178.3
45°	210.2	197.8	186.2	178.6	173.4	169.3	167.6	166.3	166.3	167.1	167.2
47.5°	193.8	182.2	172.9	164.5	159.6	157.1	155.6	155.0	155.0	155.7	156.6
50°	183.7	172.3	163.1	155.6	151.1	148.7	147.3	146.9	147.3	147.3	148.7
52.5°	172.8	162.6	153.5	147.2	142.1	139.8	139.1	138.6	138.8	139.4	140.0
55°	156.8	147.6	138.9	132.9	129.2	127.7	126.0	126.2	125.8	126.2	126.2
57.5°	140.6	132.4	124.4	119.6	116.3	114.2	112.3	112.8	112.3	112.2	111.9
60°	130.3	121.3	114.9	110.6	106.9	105.0	103.3	103.7	103.1	102.7	102.0
62.5°	119.1	111.5	105.4	101.3	98.3	96.2	94.4	94.1	92.8	91.5	89.8
65°	102.7	96.6	91.1	87.2	84.4	82.7	81.4	80.2	77.4	74.5	73.0
67.5°	86.9	82.4	77.3	74.0	71.7	69.6	67.0	65.1	62.5	60.8	59.9
70°	76.7	72.4	68.0	64.9	62.4	60.4	57.6	56.2	54.3	53.6	52.7
72.5°	66.9	62.9	58.9	56.0	53.5	51.8	49.6	48.3	47.5	47.1	46.3
75°	52.1	49.0	45.9	43.3	41.3	40.1	39.2	38.3	37.9	36.2	35.3
77.5°	38.0	35.9	34.1	32.2	30.7	29.9	28.1	27.1	26.5	25.7	25.4
80°	29.6	28.1	26.2	25.1	23.1	22.3	21.5	21.4	21.2	21.0	20.8
82.5°	22.3	20.8	18.9	18.2	17.7	17.2	16.8	16.6	16.4	16.5	16.5
85°	11.2	10.5	10.5	10.3	10.1	9.9	9.7	9.7	9.6	9.7	9.6
87.5°	4.7	4.7	4.8	4.6	4.9	5.0	5.0	5.1	5.3	5.1	5.1
90°	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9	9.3	9.8	10.1
92.5°	4.8	5.1	5.7	6.3	7.0	7.6	8.1	8.6	9.0	9.5	9.7
95°	8.9	7.6	7.7	7.8	7.8	7.9	8.4	8.9	9.3	9.8	10.1
97.5°	48.7	45.1	36.2	27.3	18.4	9.5	9.5	9.6	9.6	9.7	9.7
100°	64.6	59.8	48.8	37.8	26.8	15.8	14.4	13.1	11.7	10.4	9.7
102.5°	82.1	81.8	80.4	79.0	77.6	76.1	61.5	46.8	32.2	17.6	10.3
105°	110.0	110.4	110.8	111.2	111.6	112.0	112.7	113.4	114.2	114.9	113.8
107.5°	137.1	137.5	138.0	138.6	139.1	139.7	140.0	140.4	140.7	141.1	141.4
110°	156.1	156.4	156.9	157.4	157.9	158.4	158.5	158.7	158.8	159.0	159.1



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.2	175.5	175.8	175.9	176.2	176.4	176.4	176.3	176.3	176.3	176.4
115°	202.7	202.8	202.7	202.6	202.6	202.5	202.6	202.8	203.0	203.1	203.2
117.5°	228.5	228.8	228.9	229.1	229.3	229.5	229.4	229.4	229.4	229.3	229.3
120°	245.7	245.9	245.8	245.7	245.7	245.6	245.7	245.9	246.1	246.2	246.2
122.5°	261.3	261.5	261.6	261.7	261.8	262.0	262.1	262.1	262.2	262.3	262.3
125°	284.9	284.9	284.8	284.6	284.5	284.3	284.6	284.8	285.0	285.3	285.4
127.5°	305.8	306.0	306.3	306.7	307.1	307.4	307.4	307.4	307.3	307.3	307.2
130°	319.9	320.0	320.3	320.5	320.8	321.0	321.1	321.2	321.2	321.3	321.3
132.5°	333.0	333.3	333.6	333.8	334.1	334.5	334.5	334.6	334.7	334.8	334.8
135°	351.5	351.6	352.0	352.3	352.6	352.9	353.1	353.2	353.4	353.6	353.7
137.5°	369.2	369.3	369.6	370.0	370.3	370.7	370.9	371.1	371.2	371.5	371.5
140°	380.8	381.0	381.1	381.4	381.5	381.7	381.9	382.1	382.4	382.6	382.8
142.5°	391.4	391.6	391.7	391.8	391.9	392.0	392.1	392.3	392.5	392.7	392.8
145°	406.6	406.8	406.8	406.8	406.8	406.8	406.9	406.9	407.0	407.1	407.2
147.5°	419.8	419.9	419.9	419.8	419.7	419.6	419.7	419.8	419.8	419.9	419.9
150°	428.2	428.3	428.2	428.1	428.0	427.9	427.9	427.9	427.9	427.9	428.0
152.5°	435.4	435.4	435.3	435.1	435.0	434.8	435.0	435.1	435.2	435.4	435.4
155°	445.1	445.0	444.8	444.6	444.3	444.1	444.4	444.7	445.0	445.4	445.4
157.5°	453.4	453.3	453.0	452.7	452.5	452.3	452.7	453.0	453.4	453.8	453.8
160°	457.9	457.7	457.6	457.6	457.5	457.4	457.9	458.4	458.8	459.3	459.3
162.5°	462.2	462.0	461.9	461.8	461.8	461.7	462.2	462.6	463.1	463.6	463.6
165°	467.6	467.5	467.5	467.5	467.5	467.5	468.1	468.7	469.4	470.0	469.9
167.5°	472.1	471.9	471.9	471.8	471.8	471.7	472.5	473.2	473.9	474.6	474.5
170°	474.5	474.3	474.4	474.4	474.5	474.6	475.2	475.9	476.5	477.2	477.1
172.5°	476.3	476.0	476.1	476.2	476.3	476.3	477.0	477.6	478.2	478.9	478.8
175°	478.1	477.9	478.0	478.1	478.2	478.2	479.0	479.7	480.4	481.1	480.9
177.5°	479.1	479.0	479.0	479.2	479.3	479.4	479.9	480.5	480.9	481.5	481.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	444.2	444.5	443.5	443.1	443.5	444.5	444.2	445.0	445.2	446.5	446.0
5°	412.1	411.7	410.7	411.0	410.7	411.7	412.1	413.6	414.3	417.3	416.9
7.5°	384.6	383.2	383.6	382.1	383.6	383.2	384.6	386.0	388.2	389.6	392.8
10°	367.8	365.8	364.1	362.6	364.1	365.8	367.8	368.6	371.8	373.3	376.4
12.5°	344.9	343.1	340.9	341.3	340.9	343.1	344.9	348.2	352.3	355.5	360.4
15°	312.4	309.5	305.1	305.6	305.1	309.5	312.4	314.8	318.9	326.1	329.4
17.5°	284.8	284.8	282.7	283.3	282.7	284.8	284.8	288.1	290.3	294.8	299.9
20°	270.5	269.3	269.4	268.9	269.4	269.3	270.5	274.5	276.7	279.9	285.5
22.5°	260.6	259.0	257.7	256.6	257.7	259.0	260.6	261.7	264.7	267.8	272.4
25°	243.9	242.8	241.1	240.7	241.1	242.8	243.9	245.6	247.1	251.0	253.8
27.5°	229.2	229.0	228.3	227.4	228.3	229.0	229.2	230.7	232.7	235.2	238.8
30°	220.7	220.3	219.9	219.4	219.9	220.3	220.7	222.2	223.6	225.7	228.5
32.5°	213.0	212.8	212.4	212.5	212.4	212.8	213.0	213.7	214.7	217.3	219.5
35°	202.1	201.9	201.5	201.4	201.5	201.9	202.1	202.9	203.4	204.1	206.0
37.5°	191.9	192.4	192.2	192.1	192.2	192.4	191.9	192.1	191.5	192.8	194.1
40°	184.9	185.1	185.4	185.2	185.4	185.1	184.9	185.1	185.1	185.1	186.2
42.5°	179.0	179.0	179.6	179.0	179.6	179.0	179.0	178.3	177.4	177.5	177.9
45°	168.6	169.7	169.4	169.4	169.4	169.7	168.6	167.2	167.1	166.3	166.3
47.5°	157.1	158.1	158.4	158.3	158.4	158.1	157.1	156.6	155.7	155.0	155.0
50°	149.6	149.2	149.8	149.6	149.8	149.2	149.6	148.7	147.3	147.3	146.9
52.5°	140.5	140.5	140.5	140.3	140.5	140.5	140.5	140.0	139.4	138.8	138.6
55°	126.4	126.6	126.2	126.4	126.2	126.6	126.4	126.2	126.2	125.8	126.2
57.5°	111.1	110.2	110.5	110.1	110.5	110.2	111.1	111.9	112.2	112.3	112.8
60°	100.1	98.6	98.2	97.5	98.2	98.6	100.1	102.0	102.7	103.1	103.7
62.5°	87.9	86.7	85.5	86.1	85.5	86.7	87.9	89.8	91.5	92.8	94.1
65°	71.5	70.7	70.1	70.9	70.1	70.7	71.5	73.0	74.5	77.4	80.2
67.5°	59.1	58.7	58.7	58.4	58.7	58.7	59.1	59.9	60.8	62.5	65.1
70°	52.7	52.1	52.1	51.7	52.1	52.1	52.7	52.7	53.6	54.3	56.2
72.5°	46.1	45.6	45.7	45.5	45.7	45.6	46.1	46.3	47.1	47.5	48.3
75°	34.1	33.2	33.2	33.4	33.2	33.2	34.1	35.3	36.2	37.9	38.3
77.5°	25.4	25.3	25.5	25.2	25.5	25.3	25.4	25.4	25.7	26.5	27.1
80°	20.8	20.6	20.4	21.0	20.4	20.6	20.8	20.8	21.0	21.2	21.4
82.5°	16.2	16.2	16.1	16.8	16.1	16.2	16.2	16.5	16.5	16.4	16.6
85°	9.7	9.3	9.7	9.3	9.7	9.3	9.7	9.6	9.7	9.6	9.7
87.5°	5.5	5.4	5.3	5.5	5.3	5.4	5.5	5.1	5.1	5.3	5.1
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9
92.5°	9.8	9.8	9.9	9.9	9.9	9.8	9.8	9.7	9.5	9.0	8.6
95°	10.1	10.2	10.3	10.4	10.3	10.2	10.1	10.1	9.8	9.3	8.9
97.5°	9.8	9.9	10.0	10.1	10.0	9.9	9.8	9.7	9.7	9.6	9.6
100°	9.8	9.9	10.0	10.1	10.0	9.9	9.8	9.7	10.4	11.7	13.1
102.5°	10.3	10.3	10.3	10.4	10.3	10.3	10.3	10.3	17.6	32.2	46.8
105°	110.9	108.1	105.2	102.3	105.2	108.1	110.9	113.8	114.9	114.2	113.4
107.5°	141.7	142.0	142.3	142.6	142.3	142.0	141.7	141.4	141.1	140.7	140.4
110°	159.4	159.6	159.9	160.1	159.9	159.6	159.4	159.1	159.0	158.8	158.7



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	176.7	177.1	177.4	177.6	177.4	177.1	176.7	176.4	176.3	176.3	176.3
115°	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.1	203.0	202.8
117.5°	229.3	229.3	229.3	229.2	229.3	229.3	229.3	229.3	229.3	229.4	229.4
120°	246.1	245.9	245.7	245.6	245.7	245.9	246.1	246.2	246.2	246.1	245.9
122.5°	262.1	262.0	261.8	261.7	261.8	262.0	262.1	262.3	262.3	262.2	262.1
125°	285.5	285.6	285.7	285.7	285.7	285.6	285.5	285.4	285.3	285.0	284.8
127.5°	307.1	307.0	307.0	307.0	307.0	307.0	307.1	307.2	307.3	307.3	307.4
130°	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.2	321.2
132.5°	334.7	334.7	334.6	334.5	334.6	334.7	334.7	334.8	334.8	334.7	334.6
135°	353.9	354.0	354.2	354.3	354.2	354.0	353.9	353.7	353.6	353.4	353.2
137.5°	371.5	371.4	371.4	371.3	371.4	371.4	371.5	371.5	371.5	371.2	371.1
140°	382.9	382.9	383.0	383.1	383.0	382.9	382.9	382.8	382.6	382.4	382.1
142.5°	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.7	392.5	392.3
145°	407.3	407.5	407.7	407.8	407.7	407.5	407.3	407.2	407.1	407.0	406.9
147.5°	420.0	420.1	420.2	420.3	420.2	420.1	420.0	419.9	419.9	419.8	419.8
150°	428.1	428.2	428.3	428.3	428.3	428.2	428.1	428.0	427.9	427.9	427.9
152.5°	435.4	435.3	435.2	435.2	435.2	435.3	435.4	435.4	435.4	435.2	435.1
155°	445.2	445.0	444.7	444.5	444.7	445.0	445.2	445.4	445.4	445.0	444.7
157.5°	453.4	453.0	452.7	452.3	452.7	453.0	453.4	453.8	453.8	453.4	453.0
160°	458.8	458.4	457.9	457.4	457.9	458.4	458.8	459.3	459.3	458.8	458.4
162.5°	463.0	462.5	461.9	461.4	461.9	462.5	463.0	463.6	463.6	463.1	462.6
165°	469.2	468.5	467.8	467.1	467.8	468.5	469.2	469.9	470.0	469.4	468.7
167.5°	473.7	472.9	472.1	471.3	472.1	472.9	473.7	474.5	474.6	473.9	473.2
170°	476.3	475.5	474.7	473.9	474.7	475.5	476.3	477.1	477.2	476.5	475.9
172.5°	477.9	477.1	476.2	475.3	476.2	477.1	477.9	478.8	478.9	478.2	477.6
175°	480.0	479.0	478.1	477.1	478.1	479.0	480.0	480.9	481.1	480.4	479.7
177.5°	480.6	479.8	479.0	478.3	479.0	479.8	480.6	481.3	481.5	480.9	480.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	445.0	446.2	448.5	451.2	453.5	455.4	456.9	459.1	461.0	463.7	466.2
5°	418.1	420.7	424.5	429.0	434.6	438.3	443.0	447.2	453.1	459.1	464.9
7.5°	394.4	397.3	402.8	409.0	415.7	421.8	427.4	434.7	442.6	451.4	461.1
10°	379.1	382.3	388.8	395.9	403.9	409.9	417.3	426.0	435.0	445.7	457.6
12.5°	365.3	368.4	376.2	383.5	391.7	398.3	407.0	415.7	427.8	439.3	453.0
15°	338.4	346.5	355.5	364.1	373.8	381.9	392.4	401.4	412.8	429.1	444.7
17.5°	308.6	317.1	328.4	341.7	354.7	364.7	375.3	386.5	400.1	416.8	434.7
20°	291.1	298.1	310.5	325.3	340.5	354.3	364.1	376.4	390.5	408.5	427.1
22.5°	278.1	284.0	293.7	308.5	324.9	341.0	353.5	365.7	381.2	399.3	419.5
25°	258.6	264.9	273.4	283.4	302.2	319.2	335.6	349.7	366.1	384.1	406.6
27.5°	242.2	247.8	255.6	266.1	278.7	297.5	317.3	333.3	350.2	369.6	392.1
30°	232.7	237.2	243.5	254.2	266.3	283.1	303.2	321.9	339.0	359.0	382.5
32.5°	222.6	227.4	233.6	242.1	255.0	269.2	289.2	309.7	327.9	348.4	371.4
35°	209.2	213.0	218.6	227.2	238.8	251.2	269.0	290.3	309.3	331.3	353.2
37.5°	195.7	200.1	204.5	212.2	221.7	235.0	249.6	271.3	292.5	312.5	333.9
40°	188.1	190.7	195.5	201.8	211.8	223.6	237.3	258.6	279.7	299.6	321.2
42.5°	179.5	182.4	186.6	192.7	201.8	213.3	226.7	245.0	267.1	286.4	306.0
45°	167.6	169.3	173.4	178.6	186.2	197.8	210.2	226.5	247.3	265.7	282.9
47.5°	155.6	157.1	159.6	164.5	172.9	182.2	193.8	208.4	226.6	245.0	259.6
50°	147.3	148.7	151.1	155.6	163.1	172.3	183.7	196.9	213.2	230.8	243.0
52.5°	139.1	139.8	142.1	147.2	153.5	162.6	172.8	184.9	200.1	214.8	227.1
55°	126.0	127.7	129.2	132.9	138.9	147.6	156.8	168.2	180.0	192.3	202.9
57.5°	112.3	114.2	116.3	119.6	124.4	132.4	140.6	149.9	160.0	170.2	179.1
60°	103.3	105.0	106.9	110.6	114.9	121.3	130.3	138.4	146.1	155.4	164.2
62.5°	94.4	96.2	98.3	101.3	105.4	111.5	119.1	126.0	134.0	142.2	148.8
65°	81.4	82.7	84.4	87.2	91.1	96.6	102.7	108.2	115.3	121.3	127.3
67.5°	67.0	69.6	71.7	74.0	77.3	82.4	86.9	92.1	97.0	101.4	106.9
70°	57.6	60.4	62.4	64.9	68.0	72.4	76.7	80.2	84.2	88.5	93.4
72.5°	49.6	51.8	53.5	56.0	58.9	62.9	66.9	69.9	73.1	76.0	80.8
75°	39.2	40.1	41.3	43.3	45.9	49.0	52.1	54.7	56.6	59.3	62.6
77.5°	28.1	29.9	30.7	32.2	34.1	35.9	38.0	40.2	42.1	42.9	45.6
80°	21.5	22.3	23.1	25.1	26.2	28.1	29.6	31.7	32.4	33.4	35.8
82.5°	16.8	17.2	17.7	18.2	18.9	20.8	22.3	23.6	24.3	24.6	26.5
85°	9.7	9.9	10.1	10.3	10.5	10.5	11.2	12.2	13.5	13.5	14.1
87.5°	5.0	5.0	4.9	4.6	4.8	4.7	4.7	4.5	4.8	5.1	5.3
90°	8.4	7.9	7.3	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1
92.5°	8.1	7.6	7.0	6.3	5.7	5.1	4.8	4.7	4.6	4.6	4.5
95°	8.4	7.9	7.8	7.8	7.7	7.6	8.9	11.6	14.3	17.0	19.7
97.5°	9.5	9.5	18.4	27.3	36.2	45.1	48.7	47.0	45.3	43.6	41.9
100°	14.4	15.8	26.8	37.8	48.8	59.8	64.6	63.2	61.8	60.3	58.9
102.5°	61.5	76.1	77.6	79.0	80.4	81.8	82.1	81.0	79.9	78.9	77.9
105°	112.7	112.0	111.6	111.2	110.8	110.4	110.0	109.5	109.0	108.5	108.1
107.5°	140.0	139.7	139.1	138.6	138.0	137.5	137.1	136.9	136.7	136.4	136.2
110°	158.5	158.4	157.9	157.4	156.9	156.4	156.1	155.8	155.6	155.3	155.1



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	176.4	176.4	176.2	175.9	175.8	175.5	175.2	174.8	174.4	173.9	173.5
115°	202.6	202.5	202.6	202.6	202.7	202.8	202.7	202.5	202.2	202.0	201.8
117.5°	229.4	229.5	229.3	229.1	228.9	228.8	228.5	228.2	227.9	227.6	227.3
120°	245.7	245.6	245.7	245.7	245.8	245.9	245.7	245.4	245.1	244.8	244.5
122.5°	262.1	262.0	261.8	261.7	261.6	261.5	261.3	261.2	260.9	260.8	260.5
125°	284.6	284.3	284.5	284.6	284.8	284.9	284.9	284.6	284.2	283.9	283.6
127.5°	307.4	307.4	307.1	306.7	306.3	306.0	305.8	305.7	305.6	305.5	305.5
130°	321.1	321.0	320.8	320.5	320.3	320.0	319.9	319.8	319.7	319.6	319.5
132.5°	334.5	334.5	334.1	333.8	333.6	333.3	333.0	332.9	332.7	332.6	332.5
135°	353.1	352.9	352.6	352.3	352.0	351.6	351.5	351.6	351.6	351.7	351.8
137.5°	370.9	370.7	370.3	370.0	369.6	369.3	369.2	369.1	369.1	369.0	369.0
140°	381.9	381.7	381.5	381.4	381.1	381.0	380.8	380.6	380.5	380.3	380.2
142.5°	392.1	392.0	391.9	391.8	391.7	391.6	391.4	391.1	390.9	390.5	390.2
145°	406.9	406.8	406.8	406.8	406.8	406.8	406.6	406.4	406.2	405.9	405.7
147.5°	419.7	419.6	419.7	419.8	419.9	419.9	419.8	419.3	418.8	418.4	418.0
150°	427.9	427.9	428.0	428.1	428.2	428.3	428.2	427.9	427.5	427.2	426.9
152.5°	435.0	434.8	435.0	435.1	435.3	435.4	435.4	435.1	434.8	434.6	434.4
155°	444.4	444.1	444.3	444.6	444.8	445.0	445.1	445.0	445.0	444.9	444.8
157.5°	452.7	452.3	452.5	452.7	453.0	453.3	453.4	453.5	453.5	453.6	453.7
160°	457.9	457.4	457.5	457.6	457.6	457.7	457.9	458.1	458.4	458.6	458.8
162.5°	462.2	461.7	461.8	461.8	461.9	462.0	462.2	462.5	462.8	463.1	463.4
165°	468.1	467.5	467.5	467.5	467.5	467.5	467.6	468.0	468.4	468.8	469.2
167.5°	472.5	471.7	471.8	471.8	471.9	471.9	472.1	472.6	473.0	473.4	473.8
170°	475.2	474.6	474.5	474.4	474.4	474.3	474.5	475.0	475.5	475.9	476.4
172.5°	477.0	476.3	476.3	476.2	476.1	476.0	476.3	476.7	477.2	477.7	478.2
175°	479.0	478.2	478.2	478.1	478.0	477.9	478.1	478.6	479.0	479.5	480.0
177.5°	479.9	479.4	479.3	479.2	479.0	479.0	479.1	479.5	480.0	480.5	480.9
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	468.2	469.5	471.0	473.9	476.3	477.4	479.4	480.9	480.5	482.6	486.2
5°	470.0	475.1	480.9	486.9	493.6	499.2	503.7	508.3	511.8	516.1	522.5
7.5°	469.7	478.7	488.5	499.2	510.3	519.9	528.7	537.7	545.7	554.4	565.9
10°	468.5	480.5	492.7	506.8	520.9	534.2	546.1	557.4	568.1	579.5	594.0
12.5°	467.1	480.9	495.7	512.6	530.1	546.1	560.2	576.5	589.9	604.6	621.2
15°	461.2	479.7	499.9	521.7	542.8	564.4	583.6	603.5	622.1	639.7	660.7
17.5°	454.4	475.8	499.5	525.4	550.6	576.8	599.8	624.8	643.7	667.4	686.9
20°	448.9	471.9	497.2	526.2	554.9	584.0	609.3	634.9	656.2	680.0	704.7
22.5°	442.1	467.4	494.8	524.9	554.9	586.7	614.7	640.1	666.5	693.3	718.8
25°	431.2	457.5	486.6	519.5	554.1	586.5	616.5	647.9	676.4	705.5	728.4
27.5°	417.9	445.4	476.0	510.1	545.5	578.7	614.0	647.6	676.3	704.3	724.2
30°	407.2	436.3	465.7	500.2	536.9	572.6	610.5	644.0	674.2	699.3	710.6
32.5°	396.2	423.8	454.2	489.1	526.7	565.1	602.6	637.0	664.9	679.9	680.2
35°	377.2	403.1	434.6	468.9	507.6	549.1	587.2	620.9	638.0	639.3	620.9
37.5°	356.5	380.2	409.9	444.3	486.6	528.0	566.8	589.3	595.0	575.9	542.0
40°	341.6	363.5	392.2	427.5	469.4	512.2	547.6	564.1	558.2	527.2	489.3
42.5°	326.0	346.4	374.1	408.8	451.0	494.2	524.4	533.2	517.4	481.6	437.3
45°	300.6	319.2	346.7	381.8	422.2	462.7	485.6	481.1	454.6	412.3	362.6
47.5°	274.0	292.2	316.8	349.2	390.7	425.6	441.1	427.5	389.9	343.3	302.9
50°	256.5	275.0	297.7	328.7	366.5	400.3	410.2	389.6	347.8	303.0	265.9
52.5°	239.2	255.1	277.3	307.2	343.4	371.9	377.2	353.5	310.3	270.1	237.2
55°	213.0	227.4	246.1	274.3	305.6	329.8	326.9	296.4	257.2	222.9	197.0
57.5°	187.6	198.4	215.8	242.2	269.7	285.9	275.6	249.5	213.0	184.9	163.1
60°	170.8	180.9	197.0	220.1	244.3	253.5	244.9	216.6	187.7	162.0	143.6
62.5°	154.9	163.8	177.7	199.1	218.6	224.1	214.8	190.1	164.1	142.2	127.0
65°	131.8	140.1	151.9	167.1	180.5	183.2	177.2	151.9	132.2	113.8	103.3
67.5°	110.8	116.2	125.5	138.6	145.8	147.3	135.7	119.8	102.4	91.2	83.3
70°	96.7	100.5	109.1	116.2	122.1	122.2	111.5	98.8	85.5	76.3	70.5
72.5°	83.1	86.7	93.2	98.1	102.6	101.1	91.3	81.3	70.5	63.5	59.3
75°	64.1	67.3	70.7	73.0	73.0	71.1	63.9	56.4	50.2	46.1	44.8
77.5°	46.6	49.2	50.4	50.0	49.4	46.4	41.9	37.0	34.8	32.9	31.8
80°	36.6	37.7	38.0	37.2	36.0	32.6	29.6	27.6	25.5	24.7	24.4
82.5°	27.1	28.1	27.1	27.4	24.9	22.1	20.4	19.7	18.9	18.6	18.2
85°	14.4	14.3	13.9	12.9	11.2	10.9	10.7	10.5	10.1	10.3	9.9
87.5°	5.3	5.1	4.7	4.7	4.8	4.7	4.9	5.1	5.1	5.1	5.5
90°	2.0	2.9	3.7	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9
92.5°	4.6	4.6	4.7	4.8	5.1	5.7	6.3	7.0	7.6	8.1	8.6
95°	17.0	14.3	11.6	8.9	7.6	7.7	7.8	7.8	7.9	8.4	8.9
97.5°	43.6	45.3	47.0	48.7	45.1	36.2	27.3	18.4	9.5	9.5	9.6
100°	60.3	61.8	63.2	64.6	59.8	48.8	37.8	26.8	15.8	14.4	13.1
102.5°	78.9	79.9	81.0	82.1	81.8	80.4	79.0	77.6	76.1	61.5	46.8
105°	108.5	109.0	109.5	110.0	110.4	110.8	111.2	111.6	112.0	112.7	113.4
107.5°	136.4	136.7	136.9	137.1	137.5	138.0	138.6	139.1	139.7	140.0	140.4
110°	155.3	155.6	155.8	156.1	156.4	156.9	157.4	157.9	158.4	158.5	158.7



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.9	174.4	174.8	175.2	175.5	175.8	175.9	176.2	176.4	176.4	176.3
115°	202.0	202.2	202.5	202.7	202.8	202.7	202.6	202.6	202.5	202.6	202.8
117.5°	227.6	227.9	228.2	228.5	228.8	228.9	229.1	229.3	229.5	229.4	229.4
120°	244.8	245.1	245.4	245.7	245.9	245.8	245.7	245.7	245.6	245.7	245.9
122.5°	260.8	260.9	261.2	261.3	261.5	261.6	261.7	261.8	262.0	262.1	262.1
125°	283.9	284.2	284.6	284.9	284.9	284.8	284.6	284.5	284.3	284.6	284.8
127.5°	305.5	305.6	305.7	305.8	306.0	306.3	306.7	307.1	307.4	307.4	307.4
130°	319.6	319.7	319.8	319.9	320.0	320.3	320.5	320.8	321.0	321.1	321.2
132.5°	332.6	332.7	332.9	333.0	333.3	333.6	333.8	334.1	334.5	334.5	334.6
135°	351.7	351.6	351.6	351.5	351.6	352.0	352.3	352.6	352.9	353.1	353.2
137.5°	369.0	369.1	369.1	369.2	369.3	369.6	370.0	370.3	370.7	370.9	371.1
140°	380.3	380.5	380.6	380.8	381.0	381.1	381.4	381.5	381.7	381.9	382.1
142.5°	390.5	390.9	391.1	391.4	391.6	391.7	391.8	391.9	392.0	392.1	392.3
145°	405.9	406.2	406.4	406.6	406.8	406.8	406.8	406.8	406.8	406.9	406.9
147.5°	418.4	418.8	419.3	419.8	419.9	419.9	419.8	419.7	419.6	419.7	419.8
150°	427.2	427.5	427.9	428.2	428.3	428.2	428.1	428.0	427.9	427.9	427.9
152.5°	434.6	434.8	435.1	435.4	435.4	435.3	435.1	435.0	434.8	435.0	435.1
155°	444.9	445.0	445.0	445.1	445.0	444.8	444.6	444.3	444.1	444.4	444.7
157.5°	453.6	453.5	453.5	453.4	453.3	453.0	452.7	452.5	452.3	452.7	453.0
160°	458.6	458.4	458.1	457.9	457.7	457.6	457.6	457.5	457.4	457.9	458.4
162.5°	463.1	462.8	462.5	462.2	462.0	461.9	461.8	461.8	461.7	462.2	462.6
165°	468.8	468.4	468.0	467.6	467.5	467.5	467.5	467.5	467.5	468.1	468.7
167.5°	473.4	473.0	472.6	472.1	471.9	471.9	471.8	471.8	471.7	472.5	473.2
170°	475.9	475.5	475.0	474.5	474.3	474.4	474.4	474.5	474.6	475.2	475.9
172.5°	477.7	477.2	476.7	476.3	476.0	476.1	476.2	476.3	476.3	477.0	477.6
175°	479.5	479.0	478.6	478.1	477.9	478.0	478.1	478.2	478.2	479.0	479.7
177.5°	480.5	480.0	479.5	479.1	479.0	479.0	479.2	479.3	479.4	479.9	480.5
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	488.1	488.7	489.2	490.7	490.8	492.2	490.8
5°	528.5	531.2	535.3	539.4	539.8	542.4	537.7
7.5°	573.8	579.9	583.7	590.3	592.9	594.6	591.9
10°	605.0	610.6	620.6	625.4	630.3	631.1	628.8
12.5°	635.2	644.0	651.9	661.2	660.9	667.5	665.1
15°	675.3	684.5	695.4	705.7	709.4	709.4	712.4
17.5°	703.9	720.8	732.1	740.1	749.0	750.5	749.5
20°	723.3	741.5	753.5	764.0	770.0	771.7	771.7
22.5°	737.7	753.2	764.9	774.4	779.3	781.3	780.7
25°	747.7	761.0	768.1	771.0	772.2	771.9	768.3
27.5°	734.0	733.4	729.0	720.3	713.8	709.9	705.4
30°	708.0	698.2	686.9	674.5	658.6	646.4	642.7
32.5°	669.1	647.2	628.1	607.5	590.4	578.2	573.1
35°	594.0	559.3	530.9	506.2	488.2	477.0	473.2
37.5°	504.8	471.2	436.2	412.2	397.2	385.9	381.7
40°	448.1	411.5	381.0	358.5	343.1	332.0	331.8
42.5°	396.3	361.4	332.6	316.5	299.9	292.6	292.6
45°	324.6	296.6	272.2	259.4	249.5	243.5	241.9
47.5°	268.7	245.6	229.3	219.2	211.1	207.3	204.8
50°	237.3	217.1	204.1	195.4	190.8	186.0	185.6
52.5°	211.3	194.9	184.8	177.7	172.0	169.1	169.1
55°	177.5	164.6	157.5	152.0	147.6	145.3	144.3
57.5°	149.6	139.9	134.7	129.7	127.8	126.0	125.6
60°	132.2	125.6	120.7	116.8	114.0	113.4	113.2
62.5°	117.8	110.9	107.6	104.5	102.4	101.6	101.2
65°	97.1	92.1	89.0	86.6	85.9	84.5	84.4
67.5°	78.3	75.3	73.3	71.6	70.6	70.5	70.5
70°	66.8	65.0	63.4	62.4	61.9	61.5	61.5
72.5°	56.9	55.6	54.2	53.7	53.6	53.2	53.1
75°	43.3	42.0	42.2	41.3	40.5	39.5	39.0
77.5°	30.7	29.8	29.5	29.5	28.8	28.8	29.0
80°	23.8	22.9	22.7	22.9	22.7	22.1	22.1
82.5°	18.1	17.3	17.1	17.0	16.9	17.0	16.7
85°	9.7	9.3	9.3	9.3	9.7	9.6	9.3
87.5°	5.3	5.2	5.5	5.4	5.4	5.3	5.5
90°	9.3	9.8	10.1	10.3	10.5	10.6	10.8
92.5°	9.0	9.5	9.7	9.8	9.8	9.9	9.9
95°	9.3	9.8	10.1	10.1	10.2	10.3	10.4
97.5°	9.6	9.7	9.7	9.8	9.9	10.0	10.1
100°	11.7	10.4	9.7	9.8	9.9	10.0	10.1
102.5°	32.2	17.6	10.3	10.3	10.3	10.3	10.4
105°	114.2	114.9	113.8	110.9	108.1	105.2	102.3
107.5°	140.7	141.1	141.4	141.7	142.0	142.3	142.6
110°	158.8	159.0	159.1	159.4	159.6	159.9	160.1



TEST NUMBER: P333015-927

CATALOG NUMBER: S124RDIW-S350D470U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	176.3	176.3	176.4	176.7	177.1	177.4	177.6
115°	203.0	203.1	203.2	203.2	203.2	203.2	203.2
117.5°	229.4	229.3	229.3	229.3	229.3	229.3	229.2
120°	246.1	246.2	246.2	246.1	245.9	245.7	245.6
122.5°	262.2	262.3	262.3	262.1	262.0	261.8	261.7
125°	285.0	285.3	285.4	285.5	285.6	285.7	285.7
127.5°	307.3	307.3	307.2	307.1	307.0	307.0	307.0
130°	321.2	321.3	321.3	321.3	321.3	321.3	321.3
132.5°	334.7	334.8	334.8	334.7	334.7	334.6	334.5
135°	353.4	353.6	353.7	353.9	354.0	354.2	354.3
137.5°	371.2	371.5	371.5	371.5	371.4	371.4	371.3
140°	382.4	382.6	382.8	382.9	382.9	383.0	383.1
142.5°	392.5	392.7	392.8	392.8	392.8	392.8	392.8
145°	407.0	407.1	407.2	407.3	407.5	407.7	407.8
147.5°	419.8	419.9	419.9	420.0	420.1	420.2	420.3
150°	427.9	427.9	428.0	428.1	428.2	428.3	428.3
152.5°	435.2	435.4	435.4	435.4	435.3	435.2	435.2
155°	445.0	445.4	445.4	445.2	445.0	444.7	444.5
157.5°	453.4	453.8	453.8	453.4	453.0	452.7	452.3
160°	458.8	459.3	459.3	458.8	458.4	457.9	457.4
162.5°	463.1	463.6	463.6	463.0	462.5	461.9	461.4
165°	469.4	470.0	469.9	469.2	468.5	467.8	467.1
167.5°	473.9	474.6	474.5	473.7	472.9	472.1	471.3
170°	476.5	477.2	477.1	476.3	475.5	474.7	473.9
172.5°	478.2	478.9	478.8	477.9	477.1	476.2	475.3
175°	480.4	481.1	480.9	480.0	479.0	478.1	477.1
177.5°	480.9	481.5	481.3	480.6	479.8	479.0	478.3
180°	480.0	480.0	480.0	480.0	480.0	480.0	480.0

(END OF REPORT)