

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: P332391-930

Luminaire Tested: **S123RDIW-S340D460U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332391-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D460U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2409.3 lumens
Efficiency: N/A
Efficacy: 104.8 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

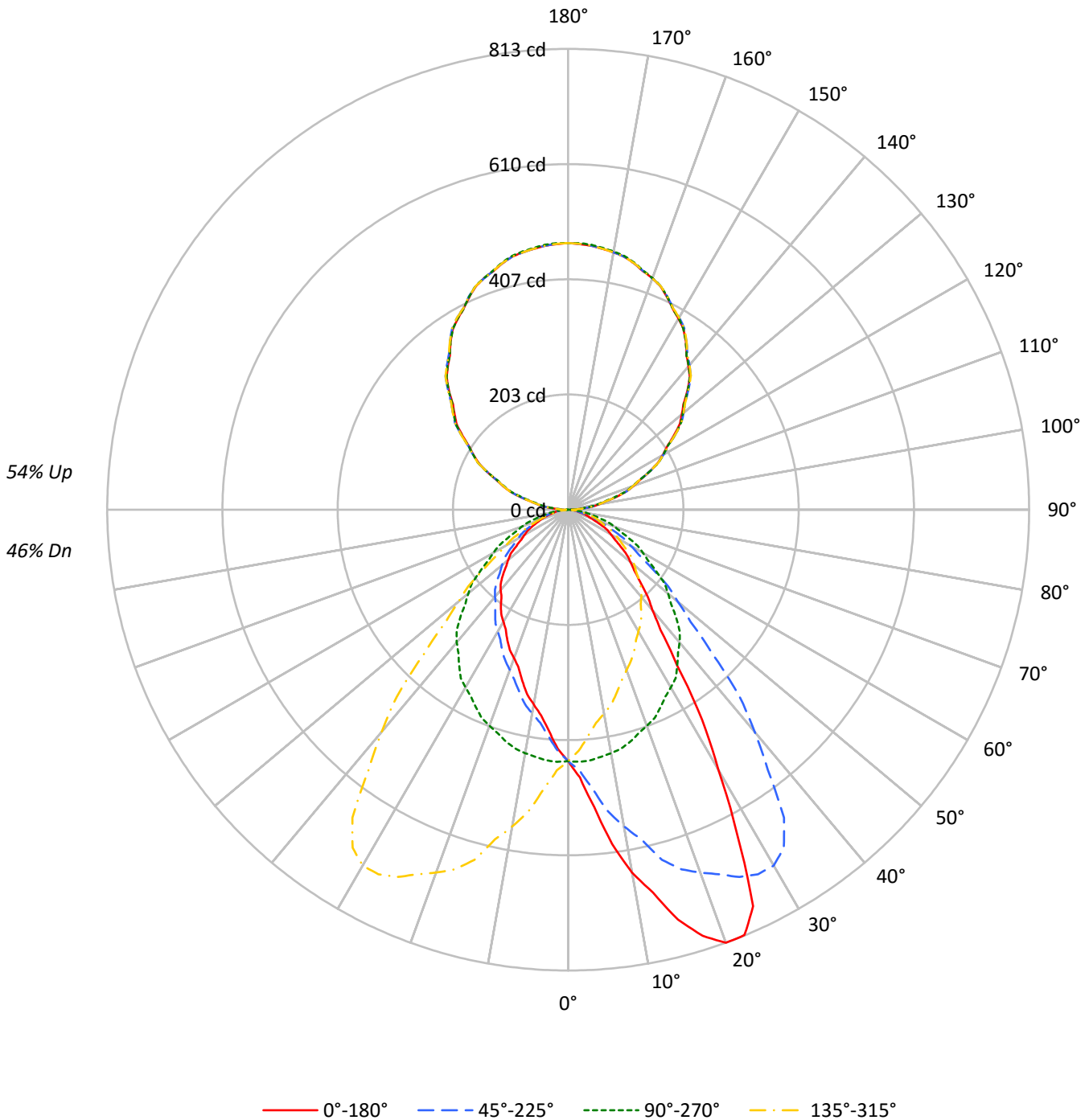
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	90	86	89	86	83	80	72	70	68	59	57	56	47	46	45	40
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	40	39	34
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	38	35	34	32	29	26
5	69	58	50	44	63	53	47	41	45	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.8
10°-20°	136.3	5.7
20°-30°	214.2	8.9
30°-40°	223.4	9.3
40°-50°	191.2	7.9
50°-60°	145.7	6.0
60°-70°	93.4	3.9
70°-80°	44.9	1.9
80°-90°	13.3	0.6
90°-100°	30.6	1.3
100°-110°	91.7	3.8
110°-120°	156.0	6.5
120°-130°	205.2	8.5
130°-140°	230.6	9.6
140°-150°	226.7	9.4
150°-160°	190.8	7.9
160°-170°	127.0	5.3
170°-180°	44.5	1.8
0°-30°	394.1	16.4
0°-40°	617.6	25.6
0°-60°	954.5	39.6
0°-90°	1106.2	45.9
90°-120°	278.3	11.6
90°-150°	940.8	39.0
90°-180°	1303.0	54.1
0°-180°	2409.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	11	0	11	0	11	6
95°	29	22	29	22	29	30
105°	88	83	88	83	88	93
115°	157	157	157	157	157	156
125°	227	230	227	230	227	203
135°	298	298	298	298	298	229
145°	362	362	362	362	362	226
155°	413	414	413	414	413	190
165°	450	451	450	451	450	127
175°	467	469	467	469	467	44
180°	470	470	470	470	470	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	3.8	4.0	3.7	3.8	3.8	3.8	3.8	3.8	4.0	3.8	3.7
90°	11.1	10.9	10.8	10.6	10.4	10.2	9.9	9.5	9.2	8.9	7.8
92.5°	14.9	15.0	15.1	15.2	15.3	15.2	15.0	14.7	14.4	14.2	13.6
95°	28.8	28.8	28.8	28.8	28.8	28.6	28.3	28.0	27.6	27.3	26.7
97.5°	44.4	44.4	44.4	44.4	44.4	44.3	43.9	43.5	43.1	42.8	42.3
100°	56.2	56.0	55.8	55.7	55.5	55.3	55.0	54.8	54.5	54.3	53.9
102.5°	68.2	68.3	68.3	68.4	68.4	68.3	68.1	67.8	67.6	67.3	66.8
105°	88.0	87.8	87.6	87.5	87.2	87.2	87.2	87.2	87.2	87.2	86.4
107.5°	108.4	108.5	108.6	108.7	108.8	108.7	108.4	108.2	107.9	107.7	107.4
110°	122.3	122.5	122.6	122.8	122.9	122.9	122.5	122.2	121.9	121.6	121.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	137.1	137.1	137.1	137.1	137.2	137.1	136.6	136.2	135.8	135.4	135.4
115°	157.4	157.5	157.6	157.7	157.8	157.8	157.7	157.6	157.5	157.4	157.6
117.5°	178.0	178.2	178.5	178.7	179.0	179.0	179.0	179.1	179.1	179.1	179.4
120°	192.5	192.7	192.8	193.0	193.1	193.3	193.4	193.5	193.6	193.6	194.0
122.5°	206.4	206.6	206.8	207.1	207.3	207.5	207.7	208.0	208.1	208.4	208.6
125°	227.2	227.6	227.9	228.2	228.5	228.9	229.2	229.5	229.8	230.2	230.3
127.5°	248.0	248.3	248.7	249.2	249.5	249.9	250.4	250.9	251.3	251.8	251.9
130°	261.5	262.2	262.8	263.3	263.9	264.3	264.6	265.0	265.3	265.6	265.9
132.5°	275.7	276.2	276.6	277.1	277.5	277.9	278.3	278.8	279.2	279.6	279.7
135°	297.8	298.0	298.2	298.3	298.5	298.7	299.1	299.4	299.7	300.0	300.1
137.5°	317.2	317.6	317.9	318.1	318.5	318.8	319.2	319.5	319.8	320.2	320.0
140°	330.0	330.5	331.1	331.7	332.2	332.6	332.6	332.7	332.8	332.9	332.8
142.5°	342.9	343.4	343.8	344.3	344.7	345.0	345.0	345.1	345.2	345.3	345.2
145°	361.7	362.1	362.4	362.7	363.1	363.2	363.3	363.4	363.5	363.5	363.3
147.5°	378.4	378.9	379.4	379.9	380.4	380.7	380.7	380.7	380.7	380.7	380.4
150°	389.1	389.6	390.0	390.5	391.0	391.3	391.3	391.3	391.3	391.3	391.1
152.5°	399.4	399.8	400.2	400.7	401.1	401.3	401.1	401.0	400.9	400.7	400.6
155°	413.4	414.0	414.6	415.2	415.7	415.9	415.6	415.2	414.9	414.6	414.5
157.5°	426.2	426.6	427.1	427.6	428.0	428.1	427.8	427.5	427.1	426.7	426.6
160°	434.5	434.8	435.1	435.5	435.8	435.8	435.4	435.0	434.6	434.1	434.1
162.5°	440.7	441.2	441.7	442.3	442.8	442.9	442.5	442.1	441.6	441.2	441.2
165°	449.6	450.2	450.8	451.3	451.9	452.0	451.5	451.0	450.5	450.0	450.0
167.5°	457.2	457.8	458.3	458.8	459.3	459.3	458.8	458.3	457.8	457.2	457.2
170°	461.1	461.7	462.3	462.8	463.4	463.4	462.8	462.3	461.7	461.1	461.1
172.5°	464.1	464.6	465.2	465.8	466.4	466.4	465.9	465.4	464.9	464.3	464.3
175°	467.4	468.0	468.6	469.1	469.7	469.7	469.2	468.7	468.2	467.7	467.7
177.5°	469.1	469.6	470.1	470.5	471.0	471.0	470.7	470.3	469.9	469.4	469.4
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	3.8	3.4	3.5	3.3	3.6	3.6	4.3	5.0	5.2	4.8	5.0
90°	6.8	5.6	4.6	3.7	2.9	2.0	1.2	0.4	1.2	2.0	2.9
92.5°	13.0	12.4	11.7	11.2	10.6	10.0	9.5	9.0	9.5	10.0	10.6
95°	26.0	25.4	24.7	24.1	23.6	22.9	22.3	21.8	22.3	22.9	23.6
97.5°	41.8	41.3	40.8	40.4	40.0	39.5	39.1	38.7	39.1	39.5	40.0
100°	53.5	53.1	52.7	52.2	51.7	51.2	50.7	50.2	50.7	51.2	51.7
102.5°	66.2	65.7	65.1	64.7	64.4	64.2	63.8	63.5	63.8	64.2	64.4
105°	85.7	85.0	84.2	83.8	83.6	83.5	83.3	83.2	83.3	83.5	83.6
107.5°	107.0	106.8	106.5	106.3	106.2	106.1	106.0	105.9	106.0	106.1	106.2
110°	121.2	121.1	120.9	120.7	120.6	120.4	120.3	120.1	120.3	120.4	120.6



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	135.4	135.3	135.3	135.3	135.2	135.1	134.9	134.9	134.9	135.1	135.2
115°	157.8	157.9	158.1	158.0	157.8	157.5	157.3	157.0	157.3	157.5	157.8
117.5°	179.5	179.8	179.9	180.0	179.9	179.7	179.5	179.4	179.5	179.7	179.9
120°	194.4	194.9	195.3	195.2	194.7	194.2	193.7	193.2	193.7	194.2	194.7
122.5°	208.8	209.0	209.2	209.1	208.8	208.5	208.1	207.7	208.1	208.5	208.8
125°	230.5	230.6	230.8	230.8	230.6	230.3	230.1	229.8	230.1	230.3	230.6
127.5°	252.1	252.3	252.5	252.3	251.8	251.3	250.7	250.2	250.7	251.3	251.8
130°	266.1	266.4	266.6	266.4	265.8	265.1	264.5	263.8	264.5	265.1	265.8
132.5°	279.9	280.1	280.3	280.1	279.4	278.8	278.0	277.4	278.0	278.8	279.4
135°	300.2	300.3	300.4	300.1	299.6	299.1	298.6	298.2	298.6	299.1	299.6
137.5°	319.8	319.5	319.4	319.0	318.6	318.2	317.8	317.4	317.8	318.2	318.6
140°	332.7	332.6	332.6	332.3	331.9	331.5	331.1	330.7	331.1	331.5	331.9
142.5°	345.0	344.9	344.7	344.5	344.1	343.6	343.2	342.8	343.2	343.6	344.1
145°	363.1	362.8	362.6	362.4	362.2	362.1	361.9	361.7	361.9	362.1	362.2
147.5°	380.2	379.9	379.7	379.4	379.1	378.9	378.5	378.3	378.5	378.9	379.1
150°	390.9	390.8	390.6	390.4	390.3	390.1	390.0	389.8	390.0	390.1	390.3
152.5°	400.6	400.4	400.3	400.1	399.9	399.7	399.5	399.3	399.5	399.7	399.9
155°	414.4	414.3	414.3	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2
157.5°	426.6	426.6	426.5	426.5	426.6	426.7	426.8	426.9	426.8	426.7	426.6
160°	434.1	434.1	434.1	434.2	434.4	434.6	434.7	434.9	434.7	434.6	434.4
162.5°	441.1	441.0	441.0	441.1	441.2	441.5	441.7	442.0	441.7	441.5	441.2
165°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.1	450.9	450.6	450.4
167.5°	457.1	457.1	457.0	457.1	457.5	457.8	458.1	458.4	458.1	457.8	457.5
170°	461.1	461.1	461.1	461.3	461.6	461.9	462.3	462.6	462.3	461.9	461.6
172.5°	464.3	464.3	464.3	464.5	464.9	465.2	465.5	465.9	465.5	465.2	464.9
175°	467.7	467.7	467.7	467.9	468.2	468.6	468.9	469.2	468.9	468.6	468.2
177.5°	469.4	469.4	469.4	469.6	469.9	470.1	470.3	470.7	470.3	470.1	469.9
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	5.0	5.6	6.0	6.4	6.8	6.8	7.0	7.1	7.3	7.3	7.4
90°	3.7	4.6	5.6	6.8	7.8	8.9	9.2	9.5	9.9	10.2	10.4
92.5°	11.2	11.7	12.4	13.0	13.6	14.2	14.4	14.7	15.0	15.2	15.3
95°	24.1	24.7	25.4	26.0	26.7	27.3	27.6	28.0	28.3	28.6	28.8
97.5°	40.4	40.8	41.3	41.8	42.3	42.8	43.1	43.5	43.9	44.3	44.4
100°	52.2	52.7	53.1	53.5	53.9	54.3	54.5	54.8	55.0	55.3	55.5
102.5°	64.7	65.1	65.7	66.2	66.8	67.3	67.6	67.8	68.1	68.3	68.4
105°	83.8	84.2	85.0	85.7	86.4	87.2	87.2	87.2	87.2	87.2	87.2
107.5°	106.3	106.5	106.8	107.0	107.4	107.7	107.9	108.2	108.4	108.7	108.8
110°	120.7	120.9	121.1	121.2	121.4	121.6	121.9	122.2	122.5	122.9	122.9



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	135.3	135.3	135.3	135.4	135.4	135.4	135.8	136.2	136.6	137.1	137.2
115°	158.0	158.1	157.9	157.8	157.6	157.4	157.5	157.6	157.7	157.8	157.8
117.5°	180.0	179.9	179.8	179.5	179.4	179.1	179.1	179.1	179.0	179.0	179.0
120°	195.2	195.3	194.9	194.4	194.0	193.6	193.6	193.5	193.4	193.3	193.1
122.5°	209.1	209.2	209.0	208.8	208.6	208.4	208.1	208.0	207.7	207.5	207.3
125°	230.8	230.8	230.6	230.5	230.3	230.2	229.8	229.5	229.2	228.9	228.5
127.5°	252.3	252.5	252.3	252.1	251.9	251.8	251.3	250.9	250.4	249.9	249.5
130°	266.4	266.6	266.4	266.1	265.9	265.6	265.3	265.0	264.6	264.3	263.9
132.5°	280.1	280.3	280.1	279.9	279.7	279.6	279.2	278.8	278.3	277.9	277.5
135°	300.1	300.4	300.3	300.2	300.1	300.0	299.7	299.4	299.1	298.7	298.5
137.5°	319.0	319.4	319.5	319.8	320.0	320.2	319.8	319.5	319.2	318.8	318.5
140°	332.3	332.6	332.6	332.7	332.8	332.9	332.8	332.7	332.6	332.6	332.2
142.5°	344.5	344.7	344.9	345.0	345.2	345.3	345.2	345.1	345.0	345.0	344.7
145°	362.4	362.6	362.8	363.1	363.3	363.5	363.5	363.4	363.3	363.2	363.1
147.5°	379.4	379.7	379.9	380.2	380.4	380.7	380.7	380.7	380.7	380.7	380.4
150°	390.4	390.6	390.8	390.9	391.1	391.3	391.3	391.3	391.3	391.3	391.0
152.5°	400.1	400.3	400.4	400.6	400.6	400.7	400.9	401.0	401.1	401.3	401.1
155°	414.2	414.3	414.3	414.4	414.5	414.6	414.9	415.2	415.6	415.9	415.7
157.5°	426.5	426.5	426.6	426.6	426.6	426.7	427.1	427.5	427.8	428.1	428.0
160°	434.2	434.1	434.1	434.1	434.1	434.1	434.6	435.0	435.4	435.8	435.8
162.5°	441.1	441.0	441.0	441.1	441.2	441.2	441.6	442.1	442.5	442.9	442.8
165°	450.1	450.0	450.0	450.0	450.0	450.0	450.5	451.0	451.5	452.0	451.9
167.5°	457.1	457.0	457.1	457.1	457.2	457.2	457.8	458.3	458.8	459.3	459.3
170°	461.3	461.1	461.1	461.1	461.1	461.1	461.7	462.3	462.8	463.4	463.4
172.5°	464.5	464.3	464.3	464.3	464.3	464.3	464.9	465.4	465.9	466.4	466.4
175°	467.9	467.7	467.7	467.7	467.7	467.7	468.2	468.7	469.2	469.7	469.7
177.5°	469.6	469.4	469.4	469.4	469.4	469.4	469.9	470.3	470.7	471.0	471.0
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	7.7	7.5	7.5	7.7	7.5	7.5	7.7	7.4	7.3	7.3	7.1
90°	10.6	10.8	10.9	11.1	10.9	10.8	10.6	10.4	10.2	9.9	9.5
92.5°	15.2	15.1	15.0	14.9	15.0	15.1	15.2	15.3	15.2	15.0	14.7
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.6	28.3	28.0
97.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.3	43.9	43.5
100°	55.7	55.8	56.0	56.2	56.0	55.8	55.7	55.5	55.3	55.0	54.8
102.5°	68.4	68.3	68.3	68.2	68.3	68.3	68.4	68.4	68.3	68.1	67.8
105°	87.5	87.6	87.8	88.0	87.8	87.6	87.5	87.2	87.2	87.2	87.2
107.5°	108.7	108.6	108.5	108.4	108.5	108.6	108.7	108.8	108.7	108.4	108.2
110°	122.8	122.6	122.5	122.3	122.5	122.6	122.8	122.9	122.9	122.5	122.2



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.2	137.1	136.6	136.2
115°	157.7	157.6	157.5	157.4	157.5	157.6	157.7	157.8	157.8	157.7	157.6
117.5°	178.7	178.5	178.2	178.0	178.2	178.5	178.7	179.0	179.0	179.0	179.1
120°	193.0	192.8	192.7	192.5	192.7	192.8	193.0	193.1	193.3	193.4	193.5
122.5°	207.1	206.8	206.6	206.4	206.6	206.8	207.1	207.3	207.5	207.7	208.0
125°	228.2	227.9	227.6	227.2	227.6	227.9	228.2	228.5	228.9	229.2	229.5
127.5°	249.2	248.7	248.3	248.0	248.3	248.7	249.2	249.5	249.9	250.4	250.9
130°	263.3	262.8	262.2	261.5	262.2	262.8	263.3	263.9	264.3	264.6	265.0
132.5°	277.1	276.6	276.2	275.7	276.2	276.6	277.1	277.5	277.9	278.3	278.8
135°	298.3	298.2	298.0	297.8	298.0	298.2	298.3	298.5	298.7	299.1	299.4
137.5°	318.1	317.9	317.6	317.2	317.6	317.9	318.1	318.5	318.8	319.2	319.5
140°	331.7	331.1	330.5	330.0	330.5	331.1	331.7	332.2	332.6	332.6	332.7
142.5°	344.3	343.8	343.4	342.9	343.4	343.8	344.3	344.7	345.0	345.0	345.1
145°	362.7	362.4	362.1	361.7	362.1	362.4	362.7	363.1	363.2	363.3	363.4
147.5°	379.9	379.4	378.9	378.4	378.9	379.4	379.9	380.4	380.7	380.7	380.7
150°	390.5	390.0	389.6	389.1	389.6	390.0	390.5	391.0	391.3	391.3	391.3
152.5°	400.7	400.2	399.8	399.4	399.8	400.2	400.7	401.1	401.3	401.1	401.0
155°	415.2	414.6	414.0	413.4	414.0	414.6	415.2	415.7	415.9	415.6	415.2
157.5°	427.6	427.1	426.6	426.2	426.6	427.1	427.6	428.0	428.1	427.8	427.5
160°	435.5	435.1	434.8	434.5	434.8	435.1	435.5	435.8	435.8	435.4	435.0
162.5°	442.3	441.7	441.2	440.7	441.2	441.7	442.3	442.8	442.9	442.5	442.1
165°	451.3	450.8	450.2	449.6	450.2	450.8	451.3	451.9	452.0	451.5	451.0
167.5°	458.8	458.3	457.8	457.2	457.8	458.3	458.8	459.3	459.3	458.8	458.3
170°	462.8	462.3	461.7	461.1	461.7	462.3	462.8	463.4	463.4	462.8	462.3
172.5°	465.8	465.2	464.6	464.1	464.6	465.2	465.8	466.4	466.4	465.9	465.4
175°	469.1	468.6	468.0	467.4	468.0	468.6	469.1	469.7	469.7	469.2	468.7
177.5°	470.5	470.1	469.6	469.1	469.6	470.1	470.5	471.0	471.0	470.7	470.3
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	7.0	6.8	6.8	6.4	6.0	5.6	5.0	5.0	4.8	5.2	5.0
90°	9.2	8.9	7.8	6.8	5.6	4.6	3.7	2.9	2.0	1.2	0.4
92.5°	14.4	14.2	13.6	13.0	12.4	11.7	11.2	10.6	10.0	9.5	9.0
95°	27.6	27.3	26.7	26.0	25.4	24.7	24.1	23.6	22.9	22.3	21.8
97.5°	43.1	42.8	42.3	41.8	41.3	40.8	40.4	40.0	39.5	39.1	38.7
100°	54.5	54.3	53.9	53.5	53.1	52.7	52.2	51.7	51.2	50.7	50.2
102.5°	67.6	67.3	66.8	66.2	65.7	65.1	64.7	64.4	64.2	63.8	63.5
105°	87.2	87.2	86.4	85.7	85.0	84.2	83.8	83.6	83.5	83.3	83.2
107.5°	107.9	107.7	107.4	107.0	106.8	106.5	106.3	106.2	106.1	106.0	105.9
110°	121.9	121.6	121.4	121.2	121.1	120.9	120.7	120.6	120.4	120.3	120.1



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	135.4	135.4	135.4	135.3	135.3	135.3	135.2	135.1	134.9	134.9
115°	157.5	157.4	157.6	157.8	157.9	158.1	158.0	157.8	157.5	157.3	157.0
117.5°	179.1	179.1	179.4	179.5	179.8	179.9	180.0	179.9	179.7	179.5	179.4
120°	193.6	193.6	194.0	194.4	194.9	195.3	195.2	194.7	194.2	193.7	193.2
122.5°	208.1	208.4	208.6	208.8	209.0	209.2	209.1	208.8	208.5	208.1	207.7
125°	229.8	230.2	230.3	230.5	230.6	230.8	230.8	230.6	230.3	230.1	229.8
127.5°	251.3	251.8	251.9	252.1	252.3	252.5	252.3	251.8	251.3	250.7	250.2
130°	265.3	265.6	265.9	266.1	266.4	266.6	266.4	265.8	265.1	264.5	263.8
132.5°	279.2	279.6	279.7	279.9	280.1	280.3	280.1	279.4	278.8	278.0	277.4
135°	299.7	300.0	300.1	300.2	300.3	300.4	300.1	299.6	299.1	298.6	298.2
137.5°	319.8	320.2	320.0	319.8	319.5	319.4	319.0	318.6	318.2	317.8	317.4
140°	332.8	332.9	332.8	332.7	332.6	332.6	332.3	331.9	331.5	331.1	330.7
142.5°	345.2	345.3	345.2	345.0	344.9	344.7	344.5	344.1	343.6	343.2	342.8
145°	363.5	363.5	363.3	363.1	362.8	362.6	362.4	362.2	362.1	361.9	361.7
147.5°	380.7	380.7	380.4	380.2	379.9	379.7	379.4	379.1	378.9	378.5	378.3
150°	391.3	391.3	391.1	390.9	390.8	390.6	390.4	390.3	390.1	390.0	389.8
152.5°	400.9	400.7	400.6	400.6	400.4	400.3	400.1	399.9	399.7	399.5	399.3
155°	414.9	414.6	414.5	414.4	414.3	414.3	414.2	414.2	414.2	414.2	414.2
157.5°	427.1	426.7	426.6	426.6	426.6	426.5	426.5	426.6	426.7	426.8	426.9
160°	434.6	434.1	434.1	434.1	434.1	434.1	434.2	434.4	434.6	434.7	434.9
162.5°	441.6	441.2	441.2	441.1	441.0	441.0	441.1	441.2	441.5	441.7	442.0
165°	450.5	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.1
167.5°	457.8	457.2	457.2	457.1	457.1	457.0	457.1	457.5	457.8	458.1	458.4
170°	461.7	461.1	461.1	461.1	461.1	461.1	461.3	461.6	461.9	462.3	462.6
172.5°	464.9	464.3	464.3	464.3	464.3	464.3	464.5	464.9	465.2	465.5	465.9
175°	468.2	467.7	467.7	467.7	467.7	467.7	467.9	468.2	468.6	468.9	469.2
177.5°	469.9	469.4	469.4	469.4	469.4	469.4	469.6	469.9	470.1	470.3	470.7
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.3	3.6	3.6	3.3	3.5	3.4	3.8	3.7	3.8	4.0	3.8
90°	1.2	2.0	2.9	3.7	4.6	5.6	6.8	7.8	8.9	9.2	9.5
92.5°	9.5	10.0	10.6	11.2	11.7	12.4	13.0	13.6	14.2	14.4	14.7
95°	22.3	22.9	23.6	24.1	24.7	25.4	26.0	26.7	27.3	27.6	28.0
97.5°	39.1	39.5	40.0	40.4	40.8	41.3	41.8	42.3	42.8	43.1	43.5
100°	50.7	51.2	51.7	52.2	52.7	53.1	53.5	53.9	54.3	54.5	54.8
102.5°	63.8	64.2	64.4	64.7	65.1	65.7	66.2	66.8	67.3	67.6	67.8
105°	83.3	83.5	83.6	83.8	84.2	85.0	85.7	86.4	87.2	87.2	87.2
107.5°	106.0	106.1	106.2	106.3	106.5	106.8	107.0	107.4	107.7	107.9	108.2
110°	120.3	120.4	120.6	120.7	120.9	121.1	121.2	121.4	121.6	121.9	122.2



TEST NUMBER: P332391-930

CATALOG NUMBER: S123RDIW-S340D460U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.9	135.1	135.2	135.3	135.3	135.3	135.4	135.4	135.4	135.8	136.2
115°	157.3	157.5	157.8	158.0	158.1	157.9	157.8	157.6	157.4	157.5	157.6
117.5°	179.5	179.7	179.9	180.0	179.9	179.8	179.5	179.4	179.1	179.1	179.1
120°	193.7	194.2	194.7	195.2	195.3	194.9	194.4	194.0	193.6	193.6	193.5
122.5°	208.1	208.5	208.8	209.1	209.2	209.0	208.8	208.6	208.4	208.1	208.0
125°	230.1	230.3	230.6	230.8	230.8	230.6	230.5	230.3	230.2	229.8	229.5
127.5°	250.7	251.3	251.8	252.3	252.5	252.3	252.1	251.9	251.8	251.3	250.9
130°	264.5	265.1	265.8	266.4	266.6	266.4	266.1	265.9	265.6	265.3	265.0
132.5°	278.0	278.8	279.4	280.1	280.3	280.1	279.9	279.7	279.6	279.2	278.8
135°	298.6	299.1	299.6	300.1	300.4	300.3	300.2	300.1	300.0	299.7	299.4
137.5°	317.8	318.2	318.6	319.0	319.4	319.5	319.8	320.0	320.2	319.8	319.5
140°	331.1	331.5	331.9	332.3	332.6	332.6	332.7	332.8	332.9	332.8	332.7
142.5°	343.2	343.6	344.1	344.5	344.7	344.9	345.0	345.2	345.3	345.2	345.1
145°	361.9	362.1	362.2	362.4	362.6	362.8	363.1	363.3	363.5	363.5	363.4
147.5°	378.5	378.9	379.1	379.4	379.7	379.9	380.2	380.4	380.7	380.7	380.7
150°	390.0	390.1	390.3	390.4	390.6	390.8	390.9	391.1	391.3	391.3	391.3
152.5°	399.5	399.7	399.9	400.1	400.3	400.4	400.6	400.6	400.7	400.9	401.0
155°	414.2	414.2	414.2	414.2	414.3	414.3	414.4	414.5	414.6	414.9	415.2
157.5°	426.8	426.7	426.6	426.5	426.5	426.6	426.6	426.6	426.7	427.1	427.5
160°	434.7	434.6	434.4	434.2	434.1	434.1	434.1	434.1	434.1	434.6	435.0
162.5°	441.7	441.5	441.2	441.1	441.0	441.0	441.1	441.2	441.2	441.6	442.1
165°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.5	451.0
167.5°	458.1	457.8	457.5	457.1	457.0	457.1	457.1	457.2	457.2	457.8	458.3
170°	462.3	461.9	461.6	461.3	461.1	461.1	461.1	461.1	461.1	461.7	462.3
172.5°	465.5	465.2	464.9	464.5	464.3	464.3	464.3	464.3	464.3	464.9	465.4
175°	468.9	468.6	468.2	467.9	467.7	467.7	467.7	467.7	467.7	468.2	468.7
177.5°	470.3	470.1	469.9	469.6	469.4	469.4	469.4	469.4	469.4	469.9	470.3
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	3.8	3.8	3.8	3.8	3.7	4.0	3.8
90°	9.9	10.2	10.4	10.6	10.8	10.9	11.1
92.5°	15.0	15.2	15.3	15.2	15.1	15.0	14.9
95°	28.3	28.6	28.8	28.8	28.8	28.8	28.8
97.5°	43.9	44.3	44.4	44.4	44.4	44.4	44.4
100°	55.0	55.3	55.5	55.7	55.8	56.0	56.2
102.5°	68.1	68.3	68.4	68.4	68.3	68.3	68.2
105°	87.2	87.2	87.2	87.5	87.6	87.8	88.0
107.5°	108.4	108.7	108.8	108.7	108.6	108.5	108.4
110°	122.5	122.9	122.9	122.8	122.6	122.5	122.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	136.6	137.1	137.2	137.1	137.1	137.1	137.1
115°	157.7	157.8	157.8	157.7	157.6	157.5	157.4
117.5°	179.0	179.0	179.0	178.7	178.5	178.2	178.0
120°	193.4	193.3	193.1	193.0	192.8	192.7	192.5
122.5°	207.7	207.5	207.3	207.1	206.8	206.6	206.4
125°	229.2	228.9	228.5	228.2	227.9	227.6	227.2
127.5°	250.4	249.9	249.5	249.2	248.7	248.3	248.0
130°	264.6	264.3	263.9	263.3	262.8	262.2	261.5
132.5°	278.3	277.9	277.5	277.1	276.6	276.2	275.7
135°	299.1	298.7	298.5	298.3	298.2	298.0	297.8
137.5°	319.2	318.8	318.5	318.1	317.9	317.6	317.2
140°	332.6	332.6	332.2	331.7	331.1	330.5	330.0
142.5°	345.0	345.0	344.7	344.3	343.8	343.4	342.9
145°	363.3	363.2	363.1	362.7	362.4	362.1	361.7
147.5°	380.7	380.7	380.4	379.9	379.4	378.9	378.4
150°	391.3	391.3	391.0	390.5	390.0	389.6	389.1
152.5°	401.1	401.3	401.1	400.7	400.2	399.8	399.4
155°	415.6	415.9	415.7	415.2	414.6	414.0	413.4
157.5°	427.8	428.1	428.0	427.6	427.1	426.6	426.2
160°	435.4	435.8	435.8	435.5	435.1	434.8	434.5
162.5°	442.5	442.9	442.8	442.3	441.7	441.2	440.7
165°	451.5	452.0	451.9	451.3	450.8	450.2	449.6
167.5°	458.8	459.3	459.3	458.8	458.3	457.8	457.2
170°	462.8	463.4	463.4	462.8	462.3	461.7	461.1
172.5°	465.9	466.4	466.4	465.8	465.2	464.6	464.1
175°	469.2	469.7	469.7	469.1	468.6	468.0	467.4
177.5°	470.7	471.0	471.0	470.5	470.1	469.6	469.1
180°	470.3	470.3	470.3	470.3	470.3	470.3	470.3

(END OF REPORT)