

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: P332240-840

Luminaire Tested: **S123RDIP-S340D365U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332240-840
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: S123RDIP-S340D365U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2834.5 lumens
Efficiency: N/A
Efficacy: 139.6 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

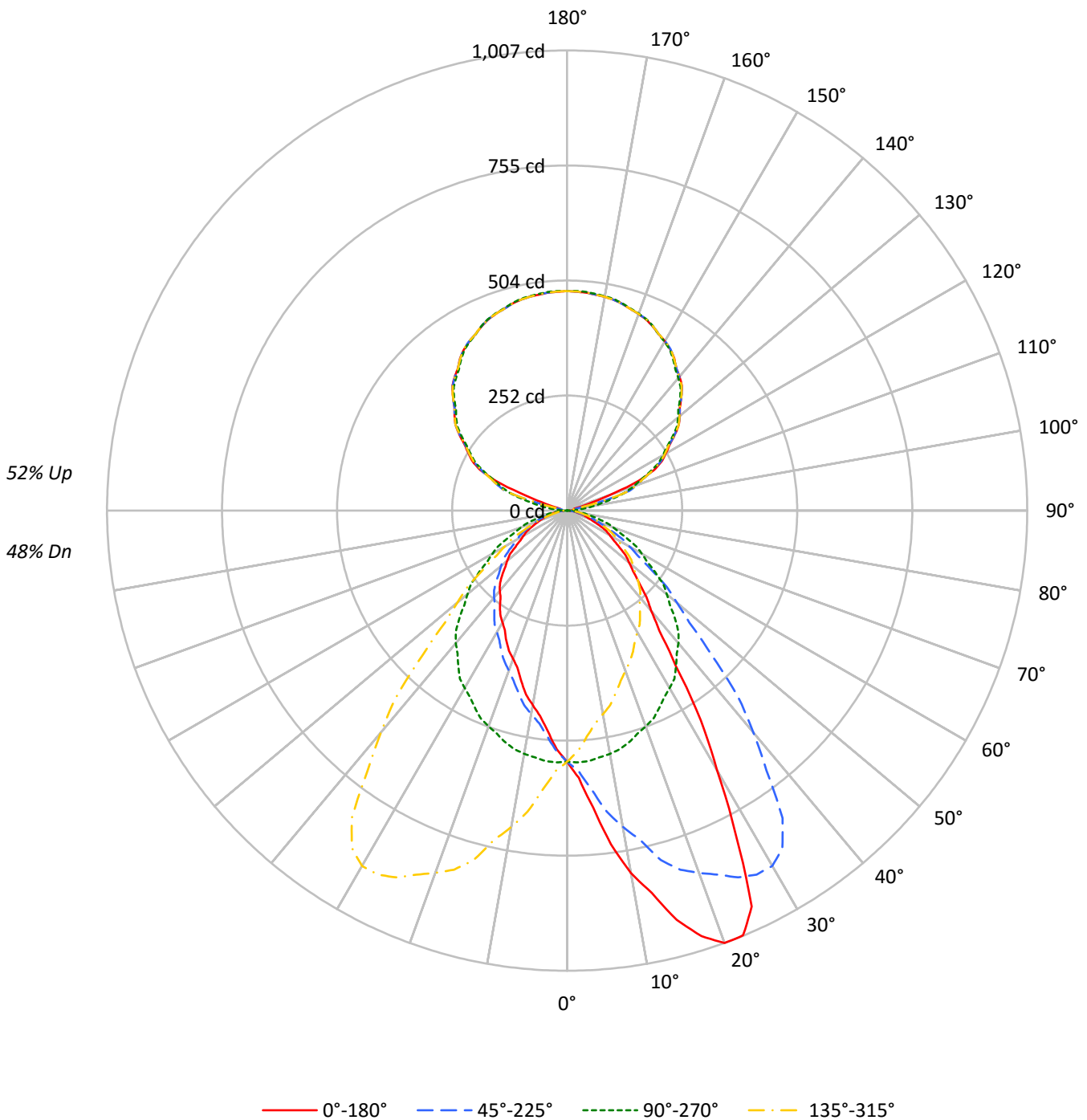
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	94	90	87	90	87	83	81	73	71	69	61	59	58	49	48	47	42
2	90	83	77	72	82	76	71	67	65	61	58	54	51	49	44	42	41	36
3	82	73	66	61	75	68	62	57	58	53	49	48	45	42	39	37	35	31
4	75	65	57	52	69	60	54	49	51	46	42	43	40	37	36	33	31	27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	32	29	27	24
6	64	52	45	39	59	49	42	37	42	36	32	35	31	28	29	26	24	21
7	59	47	40	34	55	44	37	32	38	33	29	32	28	25	27	24	22	19
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	18	16
10	48	36	29	25	44	34	28	23	30	24	21	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5916	5916	5916	5916
5°	7052	5942	5232	5942
10°	8805	5908	4726	5908
15°	10336	5846	4310	5846
20°	11535	5756	3956	5756
25°	11351	5662	3739	5662
30°	8158	5574	3515	5574
35°	5447	5460	3369	5460
40°	4013	5323	3219	5323
45°	3367	5083	3073	5083
50°	2971	4767	2869	4767
55°	2607	4406	2586	4406
60°	2321	4060	2370	4060
65°	2038	3691	2203	3691
70°	1599	3361	2014	3361
75°	1406	2936	1838	2936
80°	1227	2492	1810	2492
85°	988	2013	1927	2013



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.9
10°-20°	168.9	6.0
20°-30°	265.3	9.4
30°-40°	276.8	9.8
40°-50°	236.9	8.4
50°-60°	180.5	6.4
60°-70°	115.7	4.1
70°-80°	55.7	2.0
80°-90°	16.1	0.6
90°-100°	17.5	0.6
100°-110°	83.2	2.9
110°-120°	199.9	7.1
120°-130°	254.6	9.0
130°-140°	272.0	9.6
140°-150°	254.4	9.0
150°-160°	205.2	7.2
160°-170°	132.4	4.7
170°-180°	45.6	1.6
0°-30°	488.2	17.2
0°-40°	764.9	27.0
0°-60°	1182.3	41.7
0°-90°	1369.8	48.3
90°-120°	300.6	10.6
90°-150°	1081.5	38.2
90°-180°	1465.0	51.7
0°-180°	2834.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	550	550	550	550	550	
5°	653	550	484	550	653	67
15°	928	525	387	525	928	263
25°	956	477	315	477	956	411
35°	414	416	256	416	414	272
45°	221	334	202	334	221	174
55°	139	235	138	235	139	126
65°	80	145	86	145	80	79
75°	34	71	44	71	34	36
85°	8	16	16	16	8	9
90°	11	0	11	0	11	5
95°	14	22	14	22	14	11
105°	16	106	16	106	16	36
115°	210	199	210	199	210	194
125°	287	281	287	281	287	256
135°	354	350	354	350	354	273
145°	408	404	408	404	408	255
155°	444	445	444	445	444	205
165°	468	469	468	469	468	132
175°	479	480	479	480	479	46
180°	480	480	480	480	480	



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	585.4	586.1	583.7	583.3	580.5	579.8	579.8	575.7	573.3	570.2	568.3
5°	652.7	656.4	654.5	650.4	643.3	641.6	637.1	630.1	622.1	612.2	607.5
7.5°	736.7	741.8	739.8	733.4	725.9	719.9	707.3	695.6	679.2	664.8	652.5
10°	805.6	800.2	796.0	789.6	782.7	771.7	758.5	740.4	719.5	703.0	684.7
12.5°	857.2	856.3	850.9	844.3	834.8	824.3	808.0	786.0	761.6	737.8	716.8
15°	927.5	928.9	925.3	918.6	904.8	886.3	861.8	852.6	817.8	791.9	766.1
17.5°	976.1	975.8	975.3	965.9	952.0	938.8	916.0	891.9	860.4	823.9	789.1
20°	1007.0	1004.6	1005.1	994.5	984.2	968.9	946.7	911.7	885.9	843.7	807.7
22.5°	1006.2	1005.7	1007.5	1003.9	996.4	984.7	967.2	937.7	904.6	862.1	821.6
25°	955.7	953.8	964.8	968.0	980.0	982.1	976.8	960.7	929.4	885.6	835.5
27.5°	799.8	798.8	819.3	845.1	877.6	902.9	927.4	939.2	929.4	898.0	847.8
30°	656.4	678.5	688.9	726.1	767.5	816.9	860.2	901.3	911.5	897.8	856.7
32.5°	545.0	564.3	573.0	604.8	643.5	701.4	766.3	824.6	865.8	876.2	851.4
35°	414.5	414.8	434.5	448.7	484.4	543.9	607.0	685.1	762.8	821.6	827.7
37.5°	330.8	331.9	344.0	358.0	384.9	416.3	471.8	536.7	626.4	716.7	769.7
40°	285.6	287.7	296.7	310.5	329.8	353.7	396.9	458.1	532.9	633.4	715.5
42.5°	256.6	260.0	264.7	275.4	287.3	309.6	344.6	391.8	459.9	554.9	649.6
45°	221.2	223.1	226.6	231.6	242.4	257.8	281.3	313.2	369.6	446.1	540.9
47.5°	195.1	194.1	197.8	201.8	209.0	219.6	235.4	261.3	301.5	362.9	443.3
50°	177.4	177.1	179.8	182.8	189.7	197.4	210.4	229.8	261.9	312.7	386.4
52.5°	160.9	161.7	163.6	167.3	172.3	178.5	190.2	204.3	231.8	275.6	337.0
55°	138.9	139.6	142.1	144.2	147.7	154.1	161.4	173.2	192.0	222.6	273.2
57.5°	120.2	119.9	122.3	122.9	126.8	132.0	137.6	146.8	160.5	183.2	217.2
60°	107.8	107.0	109.2	110.8	112.9	117.1	121.9	130.8	141.7	158.3	187.5
62.5°	96.4	96.1	97.7	99.4	101.1	104.9	108.9	115.7	124.3	138.4	161.6
65°	80.0	80.7	81.4	82.1	83.0	85.4	89.2	93.9	99.8	109.7	126.3
67.5°	62.9	63.6	63.8	65.2	67.3	68.8	71.1	75.2	79.4	87.7	97.1
70°	50.8	50.6	50.8	51.5	54.1	56.7	59.8	62.8	65.4	71.3	79.3
72.5°	43.6	43.2	43.8	44.0	45.2	45.9	47.9	50.8	54.1	58.1	63.8
75°	33.8	33.8	33.8	33.8	34.8	35.2	36.0	36.7	37.9	39.8	44.0
77.5°	25.0	25.0	25.4	25.7	25.9	26.2	26.6	27.3	27.7	28.7	30.5
80°	19.8	20.0	19.8	20.0	20.0	20.5	20.7	21.4	21.6	22.8	23.5
82.5°	14.8	14.7	14.8	15.1	15.1	15.6	15.7	16.2	16.2	16.8	17.5
85°	8.0	7.6	8.0	7.8	8.3	7.8	8.0	8.5	8.5	8.7	9.7
87.5°	4.0	4.3	3.9	4.1	4.0	4.2	4.1	4.1	4.4	4.1	4.1
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2	8.9	8.6	7.6
92.5°	11.8	11.7	11.6	11.5	11.5	11.2	10.7	10.2	9.6	9.1	8.4
95°	13.5	13.5	13.5	13.5	13.5	13.3	12.7	12.2	11.6	11.1	10.2
97.5°	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.7	12.1	11.5	17.2
100°	14.9	14.9	14.8	14.7	14.6	14.3	13.6	13.0	12.4	11.8	24.1
102.5°	15.2	15.1	14.9	14.8	14.7	15.7	17.6	19.6	21.5	23.5	37.0
105°	15.7	15.6	15.3	15.2	15.0	22.0	36.1	50.1	64.1	78.2	85.3
107.5°	49.3	59.9	70.5	81.1	91.6	102.1	112.4	122.7	132.9	143.2	142.1
110°	98.2	109.5	120.8	132.2	143.5	150.5	153.1	155.7	158.3	161.0	160.1



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.3	170.8	173.2	175.5	177.9	179.2	179.0	179.0	178.9	178.9	178.0
115°	209.8	209.5	209.2	208.8	208.5	208.0	207.2	206.4	205.6	204.8	204.1
117.5°	233.1	233.1	233.0	232.9	232.9	232.5	231.9	231.3	230.6	229.9	229.6
120°	249.1	249.1	249.1	249.1	249.1	248.7	248.1	247.5	246.9	246.2	246.0
122.5°	264.8	264.7	264.7	264.6	264.5	264.3	263.9	263.4	263.0	262.5	262.2
125°	286.9	286.8	286.6	286.4	286.3	286.1	286.0	285.8	285.7	285.5	285.2
127.5°	308.2	308.3	308.5	308.6	308.8	308.8	308.5	308.2	308.0	307.7	307.4
130°	321.8	322.0	322.2	322.3	322.6	322.4	322.1	321.8	321.4	321.1	320.8
132.5°	334.5	334.7	334.9	335.1	335.4	335.3	335.0	334.7	334.4	334.1	333.8
135°	353.7	353.9	354.2	354.4	354.6	354.6	354.4	354.2	353.9	353.7	353.4
137.5°	371.7	371.8	372.0	372.1	372.3	372.2	371.8	371.4	371.1	370.7	370.5
140°	382.5	382.7	382.8	383.0	383.1	383.1	382.7	382.4	382.1	381.8	381.6
142.5°	392.5	392.7	392.9	393.2	393.4	393.4	393.1	392.9	392.6	392.4	392.1
145°	407.9	407.9	407.9	407.9	407.9	407.8	407.7	407.5	407.4	407.2	407.0
147.5°	419.3	419.7	420.0	420.4	420.8	420.9	420.7	420.5	420.4	420.2	420.1
150°	427.9	428.1	428.4	428.6	428.8	428.9	428.7	428.6	428.4	428.2	428.1
152.5°	434.7	435.0	435.5	435.9	436.2	436.3	436.0	435.7	435.4	435.0	434.9
155°	444.2	444.7	445.2	445.8	446.2	446.3	445.9	445.5	445.0	444.6	444.5
157.5°	452.3	452.9	453.6	454.2	454.8	454.9	454.4	453.9	453.4	453.0	453.0
160°	457.5	458.1	458.6	459.2	459.7	459.8	459.3	458.8	458.3	457.9	458.0
162.5°	462.3	462.8	463.3	463.8	464.3	464.2	463.7	463.2	462.6	462.1	462.2
165°	468.2	468.8	469.3	469.9	470.4	470.4	469.8	469.1	468.5	467.9	467.9
167.5°	472.4	473.0	473.6	474.3	474.9	474.9	474.3	473.6	473.0	472.4	472.4
170°	474.9	475.6	476.3	476.9	477.5	477.5	476.9	476.3	475.6	474.9	474.9
172.5°	476.4	477.1	477.8	478.5	479.2	479.2	478.6	478.0	477.4	476.7	476.7
175°	478.6	479.2	479.8	480.5	481.1	481.1	480.6	480.0	479.5	478.9	478.8
177.5°	479.2	479.8	480.5	481.1	481.7	481.8	481.3	480.8	480.3	479.8	479.7
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	567.4	566.9	564.3	561.3	557.3	554.7	552.6	551.5	548.1	543.9	541.2
5°	602.6	595.5	587.9	578.8	570.3	561.6	556.2	549.9	542.1	533.4	527.3
7.5°	640.1	626.2	611.4	595.9	580.8	567.1	555.0	544.7	532.4	519.9	511.2
10°	668.9	648.6	627.7	606.3	586.8	568.5	554.3	540.5	525.6	511.3	500.4
12.5°	695.1	668.4	644.3	617.9	593.0	571.1	550.8	534.4	516.5	501.3	489.0
15°	728.2	700.8	671.8	631.7	598.5	570.8	546.0	524.6	503.0	484.2	472.2
17.5°	759.1	718.1	678.8	645.5	602.4	567.7	537.6	512.0	488.2	468.3	453.4
20°	771.9	732.2	689.6	647.0	604.7	565.8	530.8	502.5	477.9	455.2	441.6
22.5°	779.6	734.7	689.7	644.0	599.1	558.7	524.0	492.9	466.2	444.7	427.9
25°	788.6	735.0	685.6	640.5	594.5	550.8	509.6	476.7	447.8	425.0	407.1
27.5°	794.6	731.4	673.1	622.9	576.3	532.8	495.0	460.1	430.7	406.6	387.4
30°	795.7	728.6	663.5	609.2	561.9	521.8	481.8	448.5	417.4	391.7	373.9
32.5°	797.2	721.6	650.5	592.8	544.3	504.7	468.5	436.6	404.8	379.5	361.2
35°	791.0	717.8	630.8	564.4	515.9	477.6	444.9	415.5	384.3	359.7	341.1
37.5°	764.3	702.6	610.4	532.5	481.8	446.4	419.7	394.0	365.4	338.9	321.4
40°	737.4	687.5	594.5	513.1	460.2	423.7	399.7	378.8	351.0	326.3	307.5
42.5°	697.3	666.9	579.5	492.8	435.8	400.6	380.3	360.7	336.4	311.2	293.6
45°	623.7	627.7	548.7	460.4	401.8	366.6	347.5	333.9	312.3	291.5	273.4
47.5°	531.5	568.9	512.5	426.0	366.2	333.1	316.4	304.5	289.8	269.5	253.0
50°	471.3	524.6	483.5	402.8	343.8	310.8	294.4	284.7	272.0	256.0	240.2
52.5°	415.8	473.1	448.5	377.0	319.4	289.3	273.3	265.3	255.2	240.1	225.9
55°	339.0	397.2	391.5	338.1	283.1	256.0	243.8	234.8	228.0	216.7	205.4
57.5°	274.3	329.3	332.2	294.8	251.0	224.2	213.7	206.9	202.5	194.0	183.5
60°	233.4	284.0	293.9	265.6	228.0	204.5	194.1	188.6	185.2	178.3	170.4
62.5°	199.5	242.6	253.8	233.5	206.0	183.9	175.8	170.7	168.2	162.4	155.3
65°	152.7	188.4	199.2	188.0	173.6	156.0	149.4	144.9	142.8	139.6	134.3
67.5°	114.8	140.9	152.8	144.8	139.6	128.5	124.3	121.9	120.0	117.8	113.4
70°	92.2	111.5	123.7	121.7	117.4	111.5	108.5	106.8	104.9	103.0	99.3
72.5°	74.1	87.5	98.9	100.0	96.5	95.3	92.6	91.9	90.8	88.6	86.4
75°	49.2	58.4	66.3	69.4	70.8	72.0	70.8	70.6	70.4	68.5	67.3
77.5°	32.2	37.2	42.2	47.5	49.7	51.2	51.6	52.5	51.8	50.9	50.3
80°	24.7	25.9	29.4	33.8	37.4	38.8	39.8	40.2	40.0	39.8	38.8
82.5°	18.0	18.9	20.6	23.7	26.7	29.0	29.6	29.5	30.0	30.2	29.4
85°	9.7	9.9	10.4	10.8	12.4	15.0	15.8	16.3	16.7	16.7	15.2
87.5°	4.3	3.9	4.0	3.9	4.3	4.3	5.4	6.1	6.5	5.9	6.0
90°	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.4	1.1	1.9	2.7
92.5°	7.6	6.8	6.1	5.8	6.0	6.2	6.5	6.7	6.5	6.2	6.0
95°	9.3	8.5	7.6	8.8	12.0	15.2	18.5	21.8	18.5	15.2	12.0
97.5°	22.9	28.6	34.3	37.9	39.4	40.8	42.3	43.7	42.3	40.8	39.4
100°	36.6	48.9	61.3	66.7	65.0	63.5	61.9	60.3	61.9	63.5	65.0
102.5°	50.5	64.0	77.6	83.7	82.6	81.4	80.3	79.2	80.3	81.4	82.6
105°	92.4	99.6	106.7	109.9	109.0	108.1	107.2	106.3	107.2	108.1	109.0
107.5°	141.0	139.9	138.8	137.8	137.1	136.4	135.7	135.0	135.7	136.4	137.1
110°	159.2	158.3	157.4	156.7	156.0	155.4	154.8	154.2	154.8	155.4	156.0



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	177.2	176.3	175.4	174.7	174.1	173.6	173.0	172.4	173.0	173.6	174.1
115°	203.4	202.7	202.0	201.4	200.9	200.5	200.0	199.4	200.0	200.5	200.9
117.5°	229.2	228.8	228.5	228.0	227.4	226.8	226.3	225.7	226.3	226.8	227.4
120°	245.8	245.5	245.3	244.8	244.1	243.4	242.7	242.0	242.7	243.4	244.1
122.5°	261.9	261.6	261.3	260.8	260.2	259.6	259.1	258.5	259.1	259.6	260.2
125°	284.9	284.6	284.2	283.8	283.1	282.5	281.9	281.2	281.9	282.5	283.1
127.5°	307.0	306.6	306.2	305.7	305.1	304.5	303.9	303.2	303.9	304.5	305.1
130°	320.5	320.2	319.9	319.4	318.8	318.1	317.5	316.9	317.5	318.1	318.8
132.5°	333.6	333.3	333.0	332.5	331.9	331.3	330.6	330.0	330.6	331.3	331.9
135°	353.0	352.6	352.3	351.9	351.5	351.0	350.5	350.1	350.5	351.0	351.5
137.5°	370.3	370.2	370.0	369.6	369.0	368.4	367.8	367.2	367.8	368.4	369.0
140°	381.3	381.1	380.9	380.5	380.0	379.6	379.1	378.6	379.1	379.6	380.0
142.5°	391.9	391.7	391.4	391.1	390.6	390.1	389.7	389.2	389.7	390.1	390.6
145°	406.9	406.7	406.6	406.2	405.7	405.1	404.6	403.9	404.6	405.1	405.7
147.5°	419.9	419.8	419.6	419.3	419.0	418.6	418.3	417.9	418.3	418.6	419.0
150°	427.9	427.8	427.6	427.4	427.2	426.9	426.7	426.5	426.7	426.9	427.2
152.5°	434.8	434.7	434.7	434.5	434.4	434.3	434.2	434.1	434.2	434.3	434.4
155°	444.4	444.4	444.3	444.3	444.5	444.6	444.8	445.0	444.8	444.6	444.5
157.5°	453.1	453.2	453.3	453.3	453.3	453.4	453.4	453.4	453.4	453.4	453.3
160°	458.0	458.1	458.2	458.3	458.3	458.4	458.5	458.6	458.5	458.4	458.3
162.5°	462.3	462.3	462.4	462.6	462.8	463.0	463.2	463.4	463.2	463.0	462.8
165°	468.0	468.1	468.2	468.3	468.6	468.8	469.0	469.3	469.0	468.8	468.6
167.5°	472.4	472.4	472.4	472.5	472.9	473.2	473.5	473.8	473.5	473.2	472.9
170°	474.9	474.9	474.9	475.1	475.4	475.7	476.1	476.4	476.1	475.7	475.4
172.5°	476.6	476.5	476.5	476.6	477.0	477.4	477.8	478.1	477.8	477.4	477.0
175°	478.8	478.7	478.6	478.8	479.2	479.5	479.9	480.3	479.9	479.5	479.2
177.5°	479.6	479.6	479.5	479.6	480.0	480.3	480.6	480.9	480.6	480.3	480.0
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	540.2	537.8	536.0	532.3	529.9	527.3	524.6	526.2	526.0	525.9	525.9
5°	522.1	516.6	511.7	505.3	501.4	496.4	492.7	492.2	493.1	489.9	488.0
7.5°	504.1	496.8	489.7	482.7	475.2	469.3	465.6	463.8	461.5	459.5	457.4
10°	491.5	482.8	475.9	467.3	459.3	452.2	447.8	444.6	443.0	441.4	438.3
12.5°	478.5	470.0	461.3	451.4	443.8	435.7	432.3	428.9	425.8	423.8	419.7
15°	459.5	448.5	439.3	428.9	420.4	412.4	407.8	400.9	400.0	397.6	393.3
17.5°	440.4	428.5	415.8	408.1	398.6	390.2	383.0	380.8	374.1	371.5	367.8
20°	425.4	414.3	404.7	394.6	380.7	372.9	367.3	364.3	358.8	355.5	353.1
22.5°	412.4	401.1	390.0	378.2	366.8	358.0	353.9	349.1	346.2	341.5	339.0
25°	393.8	381.6	368.2	355.5	347.3	340.7	334.1	329.8	325.6	323.5	318.8
27.5°	372.3	359.5	347.0	337.3	327.2	320.7	314.8	311.0	305.9	302.4	299.7
30°	360.4	345.4	334.6	325.9	313.0	306.8	302.4	297.6	293.9	290.1	287.5
32.5°	346.7	333.0	322.8	311.9	302.1	295.3	289.5	285.4	282.2	278.6	276.0
35°	325.2	313.7	303.1	292.3	284.9	278.1	271.2	267.7	264.7	261.4	259.0
37.5°	305.7	294.9	284.8	274.6	265.5	259.9	254.5	251.8	247.6	245.4	243.1
40°	293.7	283.1	272.3	262.4	253.0	248.7	243.8	239.7	236.0	234.3	231.8
42.5°	280.4	269.8	260.7	250.1	242.4	236.6	232.1	227.7	224.9	222.5	221.1
45°	260.9	251.6	242.6	232.0	224.7	219.7	214.6	210.6	208.0	206.3	203.8
47.5°	242.0	232.6	223.5	214.3	207.2	201.6	196.3	193.6	190.2	188.1	186.4
50°	228.2	219.7	210.2	201.7	194.6	188.9	184.7	181.2	178.1	175.5	174.3
52.5°	215.6	206.6	198.2	190.4	182.9	176.5	172.7	169.0	166.6	163.7	162.3
55°	194.8	186.1	179.0	171.3	164.0	158.5	153.9	150.6	148.2	144.9	143.1
57.5°	175.3	167.4	159.1	152.3	144.8	140.3	136.3	131.9	129.0	126.4	124.5
60°	162.1	153.2	145.8	139.6	132.9	127.0	123.5	120.0	116.9	114.3	112.7
62.5°	148.3	140.6	133.6	126.7	120.7	115.5	111.5	108.6	105.8	104.2	102.5
65°	127.2	121.2	114.1	108.5	102.8	99.1	95.7	93.2	91.3	90.1	88.7
67.5°	107.9	102.0	95.8	90.3	86.4	83.6	81.5	79.3	78.3	76.7	75.8
70°	95.3	89.2	83.7	79.5	75.7	73.6	72.2	70.6	69.7	67.8	66.9
72.5°	81.6	77.2	73.2	69.8	66.8	64.8	63.0	61.0	59.5	57.4	56.5
75°	64.2	60.2	57.2	54.8	52.9	50.4	47.8	45.6	44.9	44.2	44.0
77.5°	47.6	45.0	42.8	40.8	38.5	36.7	36.1	35.5	35.4	35.0	35.0
80°	37.4	35.0	33.4	31.1	29.7	29.7	29.7	29.2	29.4	29.4	29.4
82.5°	27.8	25.7	24.7	23.9	23.6	23.8	23.8	23.9	23.7	24.1	23.9
85°	14.3	14.5	15.0	14.8	15.0	15.0	15.6	15.2	15.6	15.0	15.6
87.5°	6.0	6.8	7.1	7.5	7.9	7.9	8.2	8.3	8.5	8.6	8.6
90°	3.5	4.4	5.5	6.5	7.6	8.6	8.9	9.2	9.5	9.8	10.1
92.5°	5.8	6.1	6.8	7.6	8.4	9.1	9.6	10.2	10.7	11.2	11.5
95°	8.8	7.6	8.5	9.3	10.2	11.1	11.6	12.2	12.7	13.3	13.5
97.5°	37.9	34.3	28.6	22.9	17.2	11.5	12.1	12.7	13.4	14.0	14.3
100°	66.7	61.3	48.9	36.6	24.1	11.8	12.4	13.0	13.6	14.3	14.6
102.5°	83.7	77.6	64.0	50.5	37.0	23.5	21.5	19.6	17.6	15.7	14.7
105°	109.9	106.7	99.6	92.4	85.3	78.2	64.1	50.1	36.1	22.0	15.0
107.5°	137.8	138.8	139.9	141.0	142.1	143.2	132.9	122.7	112.4	102.1	91.6
110°	156.7	157.4	158.3	159.2	160.1	161.0	158.3	155.7	153.1	150.5	143.5



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.7	175.4	176.3	177.2	178.0	178.9	178.9	179.0	179.0	179.2	177.9
115°	201.4	202.0	202.7	203.4	204.1	204.8	205.6	206.4	207.2	208.0	208.5
117.5°	228.0	228.5	228.8	229.2	229.6	229.9	230.6	231.3	231.9	232.5	232.9
120°	244.8	245.3	245.5	245.8	246.0	246.2	246.9	247.5	248.1	248.7	249.1
122.5°	260.8	261.3	261.6	261.9	262.2	262.5	263.0	263.4	263.9	264.3	264.5
125°	283.8	284.2	284.6	284.9	285.2	285.5	285.7	285.8	286.0	286.1	286.3
127.5°	305.7	306.2	306.6	307.0	307.4	307.7	308.0	308.2	308.5	308.8	308.8
130°	319.4	319.9	320.2	320.5	320.8	321.1	321.4	321.8	322.1	322.4	322.6
132.5°	332.5	333.0	333.3	333.6	333.8	334.1	334.4	334.7	335.0	335.3	335.4
135°	351.9	352.3	352.6	353.0	353.4	353.7	353.9	354.2	354.4	354.6	354.6
137.5°	369.6	370.0	370.2	370.3	370.5	370.7	371.1	371.4	371.8	372.2	372.3
140°	380.5	380.9	381.1	381.3	381.6	381.8	382.1	382.4	382.7	383.1	383.1
142.5°	391.1	391.4	391.7	391.9	392.1	392.4	392.6	392.9	393.1	393.4	393.4
145°	406.2	406.6	406.7	406.9	407.0	407.2	407.4	407.5	407.7	407.8	407.9
147.5°	419.3	419.6	419.8	419.9	420.1	420.2	420.4	420.5	420.7	420.9	420.8
150°	427.4	427.6	427.8	427.9	428.1	428.2	428.4	428.6	428.7	428.9	428.8
152.5°	434.5	434.7	434.7	434.8	434.9	435.0	435.4	435.7	436.0	436.3	436.2
155°	444.3	444.3	444.4	444.4	444.5	444.6	445.0	445.5	445.9	446.3	446.2
157.5°	453.3	453.3	453.2	453.1	453.0	453.0	453.4	453.9	454.4	454.9	454.8
160°	458.3	458.2	458.1	458.0	458.0	457.9	458.3	458.8	459.3	459.8	459.7
162.5°	462.6	462.4	462.3	462.3	462.2	462.1	462.6	463.2	463.7	464.2	464.3
165°	468.3	468.2	468.1	468.0	467.9	467.9	468.5	469.1	469.8	470.4	470.4
167.5°	472.5	472.4	472.4	472.4	472.4	472.4	473.0	473.6	474.3	474.9	474.9
170°	475.1	474.9	474.9	474.9	474.9	474.9	475.6	476.3	476.9	477.5	477.5
172.5°	476.6	476.5	476.5	476.6	476.7	476.7	477.4	478.0	478.6	479.2	479.2
175°	478.8	478.6	478.7	478.8	478.8	478.9	479.5	480.0	480.6	481.1	481.1
177.5°	479.6	479.5	479.6	479.6	479.7	479.8	480.3	480.8	481.3	481.8	481.7
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	523.6	523.4	523.6	522.9	523.6	523.4	523.6	525.9	525.9	526.0	526.2
5°	487.3	487.1	486.4	484.2	486.4	487.1	487.3	488.0	489.9	493.1	492.2
7.5°	455.4	455.1	453.1	453.1	453.1	455.1	455.4	457.4	459.5	461.5	463.8
10°	436.7	436.9	434.0	432.4	434.0	436.9	436.7	438.3	441.4	443.0	444.6
12.5°	418.4	417.4	415.1	413.2	415.1	417.4	418.4	419.7	423.8	425.8	428.9
15°	394.4	391.9	386.4	386.8	386.4	391.9	394.4	393.3	397.6	400.0	400.9
17.5°	366.0	364.3	364.2	360.8	364.2	364.3	366.0	367.8	371.5	374.1	380.8
20°	349.4	348.2	348.7	345.4	348.7	348.2	349.4	353.1	355.5	358.8	364.3
22.5°	336.4	335.2	333.3	332.2	333.3	335.2	336.4	339.0	341.5	346.2	349.1
25°	317.4	315.5	313.7	314.8	313.7	315.5	317.4	318.8	323.5	325.6	329.8
27.5°	298.4	297.0	295.1	294.9	295.1	297.0	298.4	299.7	302.4	305.9	311.0
30°	286.3	284.9	284.0	282.8	284.0	284.9	286.3	287.5	290.1	293.9	297.6
32.5°	274.1	273.8	272.2	271.9	272.2	273.8	274.1	276.0	278.6	282.2	285.4
35°	258.1	256.7	256.2	256.4	256.2	256.7	258.1	259.0	261.4	264.7	267.7
37.5°	242.9	241.1	240.1	239.3	240.1	241.1	242.9	243.1	245.4	247.6	251.8
40°	232.0	230.1	229.6	229.1	229.6	230.1	232.0	231.8	234.3	236.0	239.7
42.5°	219.7	219.0	218.7	217.8	218.7	219.0	219.7	221.1	222.5	224.9	227.7
45°	203.1	202.8	201.4	201.9	201.4	202.8	203.1	203.8	206.3	208.0	210.6
47.5°	185.4	184.4	183.4	184.1	183.4	184.4	185.4	186.4	188.1	190.2	193.6
50°	173.4	172.9	170.8	171.3	170.8	172.9	173.4	174.3	175.5	178.1	181.2
52.5°	161.4	159.6	158.8	158.4	158.8	159.6	161.4	162.3	163.7	166.6	169.0
55°	141.4	139.3	138.4	137.8	138.4	139.3	141.4	143.1	144.9	148.2	150.6
57.5°	121.8	121.3	120.5	121.0	120.5	121.3	121.8	124.5	126.4	129.0	131.9
60°	110.4	110.4	110.4	110.1	110.4	110.4	110.4	112.7	114.3	116.9	120.0
62.5°	101.5	100.9	100.8	101.1	100.8	100.9	101.5	102.5	104.2	105.8	108.6
65°	88.0	87.8	86.8	86.5	86.8	87.8	88.0	88.7	90.1	91.3	93.2
67.5°	75.2	74.4	74.1	73.8	74.1	74.4	75.2	75.8	76.7	78.3	79.3
70°	65.6	65.1	63.7	64.0	63.7	65.1	65.6	66.9	67.8	69.7	70.6
72.5°	55.3	54.8	54.5	54.2	54.5	54.8	55.3	56.5	57.4	59.5	61.0
75°	43.7	43.5	43.3	44.2	43.3	43.5	43.7	44.0	44.2	44.9	45.6
77.5°	35.0	35.0	35.2	34.8	35.2	35.0	35.0	35.0	35.0	35.4	35.5
80°	29.4	29.4	29.2	29.2	29.2	29.4	29.4	29.4	29.4	29.4	29.2
82.5°	23.5	23.7	23.9	23.5	23.9	23.7	23.5	23.9	24.1	23.7	23.9
85°	15.6	15.2	15.8	15.6	15.8	15.2	15.6	15.6	15.0	15.6	15.2
87.5°	9.0	8.7	8.7	8.9	8.7	8.7	9.0	8.6	8.6	8.5	8.3
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°	11.5	11.6	11.7	11.8	11.7	11.6	11.5	11.5	11.2	10.7	10.2
95°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.3	12.7	12.2
97.5°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.7
100°	14.7	14.8	14.9	14.9	14.9	14.8	14.7	14.6	14.3	13.6	13.0
102.5°	14.8	14.9	15.1	15.2	15.1	14.9	14.8	14.7	15.7	17.6	19.6
105°	15.2	15.3	15.6	15.7	15.6	15.3	15.2	15.0	22.0	36.1	50.1
107.5°	81.1	70.5	59.9	49.3	59.9	70.5	81.1	91.6	102.1	112.4	122.7
110°	132.2	120.8	109.5	98.2	109.5	120.8	132.2	143.5	150.5	153.1	155.7



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.5	173.2	170.8	168.3	170.8	173.2	175.5	177.9	179.2	179.0	179.0
115°	208.8	209.2	209.5	209.8	209.5	209.2	208.8	208.5	208.0	207.2	206.4
117.5°	232.9	233.0	233.1	233.1	233.1	233.0	232.9	232.9	232.5	231.9	231.3
120°	249.1	249.1	249.1	249.1	249.1	249.1	249.1	249.1	248.7	248.1	247.5
122.5°	264.6	264.7	264.7	264.8	264.7	264.7	264.6	264.5	264.3	263.9	263.4
125°	286.4	286.6	286.8	286.9	286.8	286.6	286.4	286.3	286.1	286.0	285.8
127.5°	308.6	308.5	308.3	308.2	308.3	308.5	308.6	308.8	308.8	308.5	308.2
130°	322.3	322.2	322.0	321.8	322.0	322.2	322.3	322.6	322.4	322.1	321.8
132.5°	335.1	334.9	334.7	334.5	334.7	334.9	335.1	335.4	335.3	335.0	334.7
135°	354.4	354.2	353.9	353.7	353.9	354.2	354.4	354.6	354.6	354.4	354.2
137.5°	372.1	372.0	371.8	371.7	371.8	372.0	372.1	372.3	372.2	371.8	371.4
140°	383.0	382.8	382.7	382.5	382.7	382.8	383.0	383.1	383.1	382.7	382.4
142.5°	393.2	392.9	392.7	392.5	392.7	392.9	393.2	393.4	393.4	393.1	392.9
145°	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.8	407.7	407.5
147.5°	420.4	420.0	419.7	419.3	419.7	420.0	420.4	420.8	420.9	420.7	420.5
150°	428.6	428.4	428.1	427.9	428.1	428.4	428.6	428.8	428.9	428.7	428.6
152.5°	435.9	435.5	435.0	434.7	435.0	435.5	435.9	436.2	436.3	436.0	435.7
155°	445.8	445.2	444.7	444.2	444.7	445.2	445.8	446.2	446.3	445.9	445.5
157.5°	454.2	453.6	452.9	452.3	452.9	453.6	454.2	454.8	454.9	454.4	453.9
160°	459.2	458.6	458.1	457.5	458.1	458.6	459.2	459.7	459.8	459.3	458.8
162.5°	463.8	463.3	462.8	462.3	462.8	463.3	463.8	464.3	464.2	463.7	463.2
165°	469.9	469.3	468.8	468.2	468.8	469.3	469.9	470.4	470.4	469.8	469.1
167.5°	474.3	473.6	473.0	472.4	473.0	473.6	474.3	474.9	474.9	474.3	473.6
170°	476.9	476.3	475.6	474.9	475.6	476.3	476.9	477.5	477.5	476.9	476.3
172.5°	478.5	477.8	477.1	476.4	477.1	477.8	478.5	479.2	479.2	478.6	478.0
175°	480.5	479.8	479.2	478.6	479.2	479.8	480.5	481.1	481.1	480.6	480.0
177.5°	481.1	480.5	479.8	479.2	479.8	480.5	481.1	481.7	481.8	481.3	480.8
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	524.6	527.3	529.9	532.3	536.0	537.8	540.2	541.2	543.9	548.1	551.5
5°	492.7	496.4	501.4	505.3	511.7	516.6	522.1	527.3	533.4	542.1	549.9
7.5°	465.6	469.3	475.2	482.7	489.7	496.8	504.1	511.2	519.9	532.4	544.7
10°	447.8	452.2	459.3	467.3	475.9	482.8	491.5	500.4	511.3	525.6	540.5
12.5°	432.3	435.7	443.8	451.4	461.3	470.0	478.5	489.0	501.3	516.5	534.4
15°	407.8	412.4	420.4	428.9	439.3	448.5	459.5	472.2	484.2	503.0	524.6
17.5°	383.0	390.2	398.6	408.1	415.8	428.5	440.4	453.4	468.3	488.2	512.0
20°	367.3	372.9	380.7	394.6	404.7	414.3	425.4	441.6	455.2	477.9	502.5
22.5°	353.9	358.0	366.8	378.2	390.0	401.1	412.4	427.9	444.7	466.2	492.9
25°	334.1	340.7	347.3	355.5	368.2	381.6	393.8	407.1	425.0	447.8	476.7
27.5°	314.8	320.7	327.2	337.3	347.0	359.5	372.3	387.4	406.6	430.7	460.1
30°	302.4	306.8	313.0	325.9	334.6	345.4	360.4	373.9	391.7	417.4	448.5
32.5°	289.5	295.3	302.1	311.9	322.8	333.0	346.7	361.2	379.5	404.8	436.6
35°	271.2	278.1	284.9	292.3	303.1	313.7	325.2	341.1	359.7	384.3	415.5
37.5°	254.5	259.9	265.5	274.6	284.8	294.9	305.7	321.4	338.9	365.4	394.0
40°	243.8	248.7	253.0	262.4	272.3	283.1	293.7	307.5	326.3	351.0	378.8
42.5°	232.1	236.6	242.4	250.1	260.7	269.8	280.4	293.6	311.2	336.4	360.7
45°	214.6	219.7	224.7	232.0	242.6	251.6	260.9	273.4	291.5	312.3	333.9
47.5°	196.3	201.6	207.2	214.3	223.5	232.6	242.0	253.0	269.5	289.8	304.5
50°	184.7	188.9	194.6	201.7	210.2	219.7	228.2	240.2	256.0	272.0	284.7
52.5°	172.7	176.5	182.9	190.4	198.2	206.6	215.6	225.9	240.1	255.2	265.3
55°	153.9	158.5	164.0	171.3	179.0	186.1	194.8	205.4	216.7	228.0	234.8
57.5°	136.3	140.3	144.8	152.3	159.1	167.4	175.3	183.5	194.0	202.5	206.9
60°	123.5	127.0	132.9	139.6	145.8	153.2	162.1	170.4	178.3	185.2	188.6
62.5°	111.5	115.5	120.7	126.7	133.6	140.6	148.3	155.3	162.4	168.2	170.7
65°	95.7	99.1	102.8	108.5	114.1	121.2	127.2	134.3	139.6	142.8	144.9
67.5°	81.5	83.6	86.4	90.3	95.8	102.0	107.9	113.4	117.8	120.0	121.9
70°	72.2	73.6	75.7	79.5	83.7	89.2	95.3	99.3	103.0	104.9	106.8
72.5°	63.0	64.8	66.8	69.8	73.2	77.2	81.6	86.4	88.6	90.8	91.9
75°	47.8	50.4	52.9	54.8	57.2	60.2	64.2	67.3	68.5	70.4	70.6
77.5°	36.1	36.7	38.5	40.8	42.8	45.0	47.6	50.3	50.9	51.8	52.5
80°	29.7	29.7	29.7	31.1	33.4	35.0	37.4	38.8	39.8	40.0	40.2
82.5°	23.8	23.8	23.6	23.9	24.7	25.7	27.8	29.4	30.2	30.0	29.5
85°	15.6	15.0	15.0	14.8	15.0	14.5	14.3	15.2	16.7	16.7	16.3
87.5°	8.2	7.9	7.9	7.5	7.1	6.8	6.0	6.0	5.9	6.5	6.1
90°	8.9	8.6	7.6	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.4
92.5°	9.6	9.1	8.4	7.6	6.8	6.1	5.8	6.0	6.2	6.5	6.7
95°	11.6	11.1	10.2	9.3	8.5	7.6	8.8	12.0	15.2	18.5	21.8
97.5°	12.1	11.5	17.2	22.9	28.6	34.3	37.9	39.4	40.8	42.3	43.7
100°	12.4	11.8	24.1	36.6	48.9	61.3	66.7	65.0	63.5	61.9	60.3
102.5°	21.5	23.5	37.0	50.5	64.0	77.6	83.7	82.6	81.4	80.3	79.2
105°	64.1	78.2	85.3	92.4	99.6	106.7	109.9	109.0	108.1	107.2	106.3
107.5°	132.9	143.2	142.1	141.0	139.9	138.8	137.8	137.1	136.4	135.7	135.0
110°	158.3	161.0	160.1	159.2	158.3	157.4	156.7	156.0	155.4	154.8	154.2



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	178.9	178.9	178.0	177.2	176.3	175.4	174.7	174.1	173.6	173.0	172.4
115°	205.6	204.8	204.1	203.4	202.7	202.0	201.4	200.9	200.5	200.0	199.4
117.5°	230.6	229.9	229.6	229.2	228.8	228.5	228.0	227.4	226.8	226.3	225.7
120°	246.9	246.2	246.0	245.8	245.5	245.3	244.8	244.1	243.4	242.7	242.0
122.5°	263.0	262.5	262.2	261.9	261.6	261.3	260.8	260.2	259.6	259.1	258.5
125°	285.7	285.5	285.2	284.9	284.6	284.2	283.8	283.1	282.5	281.9	281.2
127.5°	308.0	307.7	307.4	307.0	306.6	306.2	305.7	305.1	304.5	303.9	303.2
130°	321.4	321.1	320.8	320.5	320.2	319.9	319.4	318.8	318.1	317.5	316.9
132.5°	334.4	334.1	333.8	333.6	333.3	333.0	332.5	331.9	331.3	330.6	330.0
135°	353.9	353.7	353.4	353.0	352.6	352.3	351.9	351.5	351.0	350.5	350.1
137.5°	371.1	370.7	370.5	370.3	370.2	370.0	369.6	369.0	368.4	367.8	367.2
140°	382.1	381.8	381.6	381.3	381.1	380.9	380.5	380.0	379.6	379.1	378.6
142.5°	392.6	392.4	392.1	391.9	391.7	391.4	391.1	390.6	390.1	389.7	389.2
145°	407.4	407.2	407.0	406.9	406.7	406.6	406.2	405.7	405.1	404.6	403.9
147.5°	420.4	420.2	420.1	419.9	419.8	419.6	419.3	419.0	418.6	418.3	417.9
150°	428.4	428.2	428.1	427.9	427.8	427.6	427.4	427.2	426.9	426.7	426.5
152.5°	435.4	435.0	434.9	434.8	434.7	434.7	434.5	434.4	434.3	434.2	434.1
155°	445.0	444.6	444.5	444.4	444.4	444.3	444.3	444.5	444.6	444.8	445.0
157.5°	453.4	453.0	453.0	453.1	453.2	453.3	453.3	453.3	453.4	453.4	453.4
160°	458.3	457.9	458.0	458.0	458.1	458.2	458.3	458.3	458.4	458.5	458.6
162.5°	462.6	462.1	462.2	462.3	462.3	462.4	462.6	462.8	463.0	463.2	463.4
165°	468.5	467.9	467.9	468.0	468.1	468.2	468.3	468.6	468.8	469.0	469.3
167.5°	473.0	472.4	472.4	472.4	472.4	472.4	472.5	472.9	473.2	473.5	473.8
170°	475.6	474.9	474.9	474.9	474.9	474.9	475.1	475.4	475.7	476.1	476.4
172.5°	477.4	476.7	476.7	476.6	476.5	476.5	476.6	477.0	477.4	477.8	478.1
175°	479.5	478.9	478.8	478.8	478.7	478.6	478.8	479.2	479.5	479.9	480.3
177.5°	480.3	479.8	479.7	479.6	479.6	479.5	479.6	480.0	480.3	480.6	480.9
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	552.6	554.7	557.3	561.3	564.3	566.9	567.4	568.3	570.2	573.3	575.7
5°	556.2	561.6	570.3	578.8	587.9	595.5	602.6	607.5	612.2	622.1	630.1
7.5°	555.0	567.1	580.8	595.9	611.4	626.2	640.1	652.5	664.8	679.2	695.6
10°	554.3	568.5	586.8	606.3	627.7	648.6	668.9	684.7	703.0	719.5	740.4
12.5°	550.8	571.1	593.0	617.9	644.3	668.4	695.1	716.8	737.8	761.6	786.0
15°	546.0	570.8	598.5	631.7	671.8	700.8	728.2	766.1	791.9	817.8	852.6
17.5°	537.6	567.7	602.4	645.5	678.8	718.1	759.1	789.1	823.9	860.4	891.9
20°	530.8	565.8	604.7	647.0	689.6	732.2	771.9	807.7	843.7	885.9	911.7
22.5°	524.0	558.7	599.1	644.0	689.7	734.7	779.6	821.6	862.1	904.6	937.7
25°	509.6	550.8	594.5	640.5	685.6	735.0	788.6	835.5	885.6	929.4	960.7
27.5°	495.0	532.8	576.3	622.9	673.1	731.4	794.6	847.8	898.0	929.4	939.2
30°	481.8	521.8	561.9	609.2	663.5	728.6	795.7	856.7	897.8	911.5	901.3
32.5°	468.5	504.7	544.3	592.8	650.5	721.6	797.2	851.4	876.2	865.8	824.6
35°	444.9	477.6	515.9	564.4	630.8	717.8	791.0	827.7	821.6	762.8	685.1
37.5°	419.7	446.4	481.8	532.5	610.4	702.6	764.3	769.7	716.7	626.4	536.7
40°	399.7	423.7	460.2	513.1	594.5	687.5	737.4	715.5	633.4	532.9	458.1
42.5°	380.3	400.6	435.8	492.8	579.5	666.9	697.3	649.6	554.9	459.9	391.8
45°	347.5	366.6	401.8	460.4	548.7	627.7	623.7	540.9	446.1	369.6	313.2
47.5°	316.4	333.1	366.2	426.0	512.5	568.9	531.5	443.3	362.9	301.5	261.3
50°	294.4	310.8	343.8	402.8	483.5	524.6	471.3	386.4	312.7	261.9	229.8
52.5°	273.3	289.3	319.4	377.0	448.5	473.1	415.8	337.0	275.6	231.8	204.3
55°	243.8	256.0	283.1	338.1	391.5	397.2	339.0	273.2	222.6	192.0	173.2
57.5°	213.7	224.2	251.0	294.8	332.2	329.3	274.3	217.2	183.2	160.5	146.8
60°	194.1	204.5	228.0	265.6	293.9	284.0	233.4	187.5	158.3	141.7	130.8
62.5°	175.8	183.9	206.0	233.5	253.8	242.6	199.5	161.6	138.4	124.3	115.7
65°	149.4	156.0	173.6	188.0	199.2	188.4	152.7	126.3	109.7	99.8	93.9
67.5°	124.3	128.5	139.6	144.8	152.8	140.9	114.8	97.1	87.7	79.4	75.2
70°	108.5	111.5	117.4	121.7	123.7	111.5	92.2	79.3	71.3	65.4	62.8
72.5°	92.6	95.3	96.5	100.0	98.9	87.5	74.1	63.8	58.1	54.1	50.8
75°	70.8	72.0	70.8	69.4	66.3	58.4	49.2	44.0	39.8	37.9	36.7
77.5°	51.6	51.2	49.7	47.5	42.2	37.2	32.2	30.5	28.7	27.7	27.3
80°	39.8	38.8	37.4	33.8	29.4	25.9	24.7	23.5	22.8	21.6	21.4
82.5°	29.6	29.0	26.7	23.7	20.6	18.9	18.0	17.5	16.8	16.2	16.2
85°	15.8	15.0	12.4	10.8	10.4	9.9	9.7	9.7	8.7	8.5	8.5
87.5°	5.4	4.3	4.3	3.9	4.0	3.9	4.3	4.1	4.1	4.4	4.1
90°	1.1	1.9	2.7	3.5	4.4	5.5	6.5	7.6	8.6	8.9	9.2
92.5°	6.5	6.2	6.0	5.8	6.1	6.8	7.6	8.4	9.1	9.6	10.2
95°	18.5	15.2	12.0	8.8	7.6	8.5	9.3	10.2	11.1	11.6	12.2
97.5°	42.3	40.8	39.4	37.9	34.3	28.6	22.9	17.2	11.5	12.1	12.7
100°	61.9	63.5	65.0	66.7	61.3	48.9	36.6	24.1	11.8	12.4	13.0
102.5°	80.3	81.4	82.6	83.7	77.6	64.0	50.5	37.0	23.5	21.5	19.6
105°	107.2	108.1	109.0	109.9	106.7	99.6	92.4	85.3	78.2	64.1	50.1
107.5°	135.7	136.4	137.1	137.8	138.8	139.9	141.0	142.1	143.2	132.9	122.7
110°	154.8	155.4	156.0	156.7	157.4	158.3	159.2	160.1	161.0	158.3	155.7



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	173.6	174.1	174.7	175.4	176.3	177.2	178.0	178.9	178.9	179.0
115°	200.0	200.5	200.9	201.4	202.0	202.7	203.4	204.1	204.8	205.6	206.4
117.5°	226.3	226.8	227.4	228.0	228.5	228.8	229.2	229.6	229.9	230.6	231.3
120°	242.7	243.4	244.1	244.8	245.3	245.5	245.8	246.0	246.2	246.9	247.5
122.5°	259.1	259.6	260.2	260.8	261.3	261.6	261.9	262.2	262.5	263.0	263.4
125°	281.9	282.5	283.1	283.8	284.2	284.6	284.9	285.2	285.5	285.7	285.8
127.5°	303.9	304.5	305.1	305.7	306.2	306.6	307.0	307.4	307.7	308.0	308.2
130°	317.5	318.1	318.8	319.4	319.9	320.2	320.5	320.8	321.1	321.4	321.8
132.5°	330.6	331.3	331.9	332.5	333.0	333.3	333.6	333.8	334.1	334.4	334.7
135°	350.5	351.0	351.5	351.9	352.3	352.6	353.0	353.4	353.7	353.9	354.2
137.5°	367.8	368.4	369.0	369.6	370.0	370.2	370.3	370.5	370.7	371.1	371.4
140°	379.1	379.6	380.0	380.5	380.9	381.1	381.3	381.6	381.8	382.1	382.4
142.5°	389.7	390.1	390.6	391.1	391.4	391.7	391.9	392.1	392.4	392.6	392.9
145°	404.6	405.1	405.7	406.2	406.6	406.7	406.9	407.0	407.2	407.4	407.5
147.5°	418.3	418.6	419.0	419.3	419.6	419.8	419.9	420.1	420.2	420.4	420.5
150°	426.7	426.9	427.2	427.4	427.6	427.8	427.9	428.1	428.2	428.4	428.6
152.5°	434.2	434.3	434.4	434.5	434.7	434.7	434.8	434.9	435.0	435.4	435.7
155°	444.8	444.6	444.5	444.3	444.3	444.4	444.4	444.5	444.6	445.0	445.5
157.5°	453.4	453.4	453.3	453.3	453.3	453.2	453.1	453.0	453.0	453.4	453.9
160°	458.5	458.4	458.3	458.3	458.2	458.1	458.0	458.0	457.9	458.3	458.8
162.5°	463.2	463.0	462.8	462.6	462.4	462.3	462.3	462.2	462.1	462.6	463.2
165°	469.0	468.8	468.6	468.3	468.2	468.1	468.0	467.9	467.9	468.5	469.1
167.5°	473.5	473.2	472.9	472.5	472.4	472.4	472.4	472.4	472.4	473.0	473.6
170°	476.1	475.7	475.4	475.1	474.9	474.9	474.9	474.9	474.9	475.6	476.3
172.5°	477.8	477.4	477.0	476.6	476.5	476.5	476.6	476.7	476.7	477.4	478.0
175°	479.9	479.5	479.2	478.8	478.6	478.7	478.8	478.8	478.9	479.5	480.0
177.5°	480.6	480.3	480.0	479.6	479.5	479.6	479.6	479.7	479.8	480.3	480.8
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	579.8	579.8	580.5	583.3	583.7	586.1	585.4
5°	637.1	641.6	643.3	650.4	654.5	656.4	652.7
7.5°	707.3	719.9	725.9	733.4	739.8	741.8	736.7
10°	758.5	771.7	782.7	789.6	796.0	800.2	805.6
12.5°	808.0	824.3	834.8	844.3	850.9	856.3	857.2
15°	861.8	886.3	904.8	918.6	925.3	928.9	927.5
17.5°	916.0	938.8	952.0	965.9	975.3	975.8	976.1
20°	946.7	968.9	984.2	994.5	1005.1	1004.6	1007.0
22.5°	967.2	984.7	996.4	1003.9	1007.5	1005.7	1006.2
25°	976.8	982.1	980.0	968.0	964.8	953.8	955.7
27.5°	927.4	902.9	877.6	845.1	819.3	798.8	799.8
30°	860.2	816.9	767.5	726.1	688.9	678.5	656.4
32.5°	766.3	701.4	643.5	604.8	573.0	564.3	545.0
35°	607.0	543.9	484.4	448.7	434.5	414.8	414.5
37.5°	471.8	416.3	384.9	358.0	344.0	331.9	330.8
40°	396.9	353.7	329.8	310.5	296.7	287.7	285.6
42.5°	344.6	309.6	287.3	275.4	264.7	260.0	256.6
45°	281.3	257.8	242.4	231.6	226.6	223.1	221.2
47.5°	235.4	219.6	209.0	201.8	197.8	194.1	195.1
50°	210.4	197.4	189.7	182.8	179.8	177.1	177.4
52.5°	190.2	178.5	172.3	167.3	163.6	161.7	160.9
55°	161.4	154.1	147.7	144.2	142.1	139.6	138.9
57.5°	137.6	132.0	126.8	122.9	122.3	119.9	120.2
60°	121.9	117.1	112.9	110.8	109.2	107.0	107.8
62.5°	108.9	104.9	101.1	99.4	97.7	96.1	96.4
65°	89.2	85.4	83.0	82.1	81.4	80.7	80.0
67.5°	71.1	68.8	67.3	65.2	63.8	63.6	62.9
70°	59.8	56.7	54.1	51.5	50.8	50.6	50.8
72.5°	47.9	45.9	45.2	44.0	43.8	43.2	43.6
75°	36.0	35.2	34.8	33.8	33.8	33.8	33.8
77.5°	26.6	26.2	25.9	25.7	25.4	25.0	25.0
80°	20.7	20.5	20.0	20.0	19.8	20.0	19.8
82.5°	15.7	15.6	15.1	15.1	14.8	14.7	14.8
85°	8.0	7.8	8.3	7.8	8.0	7.6	8.0
87.5°	4.1	4.2	4.0	4.1	3.9	4.3	4.0
90°	9.5	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	10.7	11.2	11.5	11.5	11.6	11.7	11.8
95°	12.7	13.3	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	14.6	14.7	14.8	14.9	14.9
102.5°	17.6	15.7	14.7	14.8	14.9	15.1	15.2
105°	36.1	22.0	15.0	15.2	15.3	15.6	15.7
107.5°	112.4	102.1	91.6	81.1	70.5	59.9	49.3
110°	153.1	150.5	143.5	132.2	120.8	109.5	98.2



TEST NUMBER: P332240-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	179.0	179.2	177.9	175.5	173.2	170.8	168.3
115°	207.2	208.0	208.5	208.8	209.2	209.5	209.8
117.5°	231.9	232.5	232.9	232.9	233.0	233.1	233.1
120°	248.1	248.7	249.1	249.1	249.1	249.1	249.1
122.5°	263.9	264.3	264.5	264.6	264.7	264.7	264.8
125°	286.0	286.1	286.3	286.4	286.6	286.8	286.9
127.5°	308.5	308.8	308.8	308.6	308.5	308.3	308.2
130°	322.1	322.4	322.6	322.3	322.2	322.0	321.8
132.5°	335.0	335.3	335.4	335.1	334.9	334.7	334.5
135°	354.4	354.6	354.6	354.4	354.2	353.9	353.7
137.5°	371.8	372.2	372.3	372.1	372.0	371.8	371.7
140°	382.7	383.1	383.1	383.0	382.8	382.7	382.5
142.5°	393.1	393.4	393.4	393.2	392.9	392.7	392.5
145°	407.7	407.8	407.9	407.9	407.9	407.9	407.9
147.5°	420.7	420.9	420.8	420.4	420.0	419.7	419.3
150°	428.7	428.9	428.8	428.6	428.4	428.1	427.9
152.5°	436.0	436.3	436.2	435.9	435.5	435.0	434.7
155°	445.9	446.3	446.2	445.8	445.2	444.7	444.2
157.5°	454.4	454.9	454.8	454.2	453.6	452.9	452.3
160°	459.3	459.8	459.7	459.2	458.6	458.1	457.5
162.5°	463.7	464.2	464.3	463.8	463.3	462.8	462.3
165°	469.8	470.4	470.4	469.9	469.3	468.8	468.2
167.5°	474.3	474.9	474.9	474.3	473.6	473.0	472.4
170°	476.9	477.5	477.5	476.9	476.3	475.6	474.9
172.5°	478.6	479.2	479.2	478.5	477.8	477.1	476.4
175°	480.6	481.1	481.1	480.5	479.8	479.2	478.6
177.5°	481.3	481.8	481.7	481.1	480.5	479.8	479.2
180°	480.3	480.3	480.3	480.3	480.3	480.3	480.3

(END OF REPORT)