

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: P332242-840

Luminaire Tested: **S123RDIP-S340D365U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332242-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
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-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.1 lumens
Efficiency: N/A
Efficacy: 132.8 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

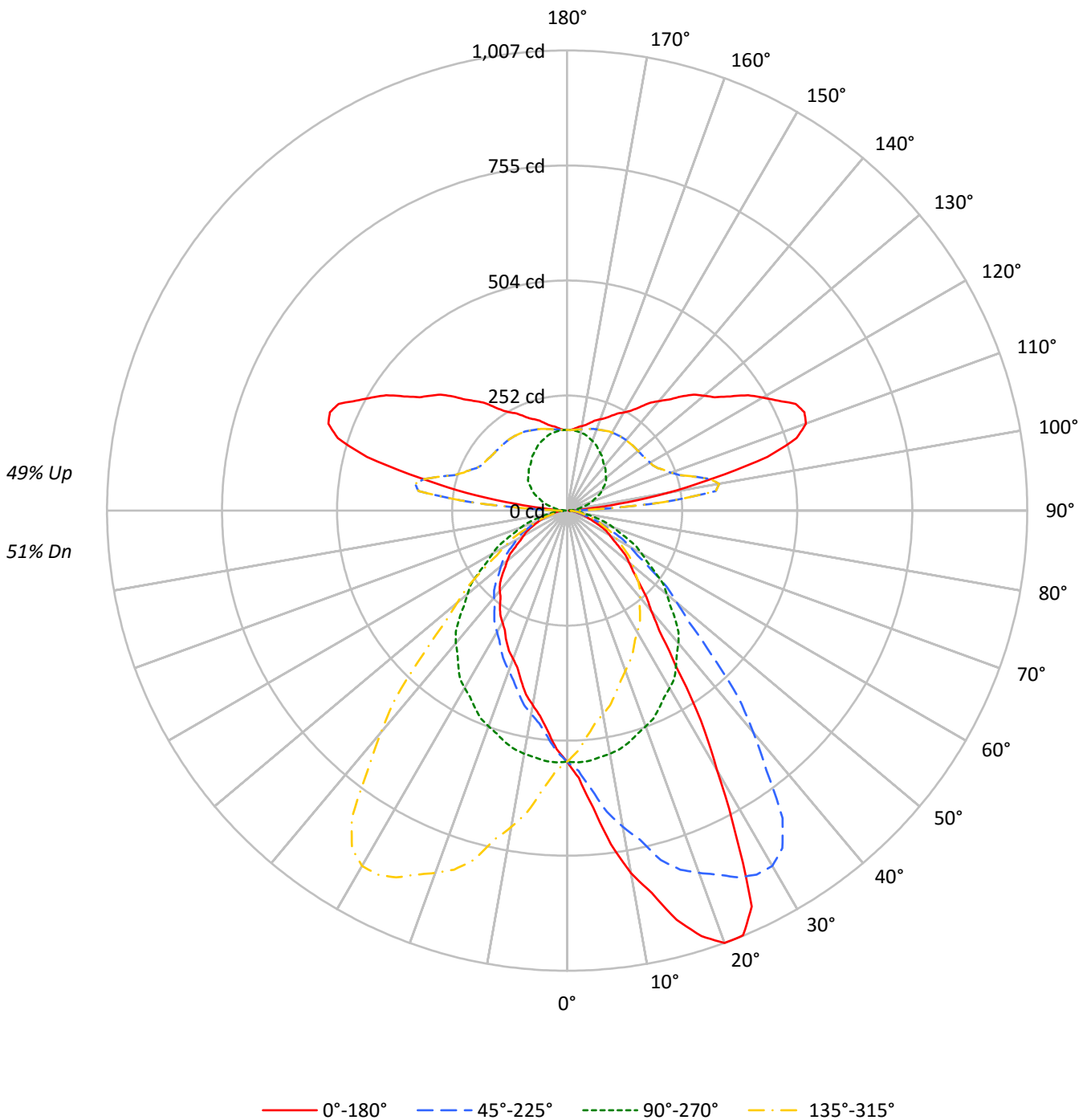
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	61	76	68	62	57	59	54	50	49	46	43	41	39	37	33
4	76	66	58	52	70	61	54	49	52	47	43	44	41	38	37	34	32	29
5	70	59	51	45	64	55	48	43	47	42	38	40	36	33	34	31	28	25
6	65	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25	22
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	23	20
8	56	44	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	40	33	28	48	37	31	26	33	27	24	28	24	21	24	21	18	16
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	2.0
10°-20°	168.9	6.3
20°-30°	265.3	9.8
30°-40°	276.8	10.3
40°-50°	236.9	8.8
50°-60°	180.5	6.7
60°-70°	115.7	4.3
70°-80°	55.7	2.1
80°-90°	16.1	0.6
90°-100°	98.1	3.6
100°-110°	277.8	10.3
110°-120°	273.3	10.1
120°-130°	218.0	8.1
130°-140°	171.9	6.4
140°-150°	128.3	4.8
150°-160°	89.4	3.3
160°-170°	52.5	1.9
170°-180°	17.1	0.6
0°-30°	488.2	18.1
0°-40°	764.9	28.4
0°-60°	1182.3	43.9
0°-90°	1369.8	50.8
90°-120°	649.2	24.1
90°-150°	1167.3	43.3
90°-180°	1326.0	49.2
0°-180°	2696.1	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°	10	1	10	1	10	6
95°	41	12	41	12	41	75
105°	454	41	454	41	454	448
115°	552	73	552	73	552	536
125°	435	102	435	102	435	395
135°	353	119	353	119	353	274
145°	276	136	276	136	276	175
155°	229	154	229	154	229	107
165°	199	169	199	169	199	57
175°	180	176	180	176	180	17
180°	176	176	176	176	176	



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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°	3.9	4.4	3.9	4.0	4.1	4.1	4.1	4.0	4.3	4.2	4.2
90°	10.3	10.7	10.3	10.0	10.3	9.6	9.3	8.9	8.6	8.9	7.9
92.5°	17.2	17.9	17.5	18.6	19.2	21.0	23.8	30.1	41.4	54.8	60.4
95°	41.4	42.8	45.3	48.6	55.3	68.2	87.1	128.5	171.7	211.7	188.4
97.5°	112.7	115.7	125.4	141.5	167.8	210.5	256.5	320.2	350.8	328.0	240.1
100°	223.8	223.4	237.3	263.4	299.4	350.1	391.8	420.7	408.3	338.0	228.4
102.5°	328.2	336.5	348.1	368.7	396.8	428.9	453.2	454.1	411.1	319.4	211.3
105°	453.9	455.8	467.2	480.7	497.2	506.3	499.6	463.9	389.3	286.9	190.3
107.5°	526.3	529.6	533.4	538.1	537.8	525.0	493.7	435.8	351.2	258.2	176.8
110°	556.0	556.7	557.4	554.6	544.6	519.6	474.6	409.0	327.3	242.0	171.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	562.0	561.9	559.2	550.3	532.0	499.9	449.5	382.4	306.4	231.1	168.7
115°	552.1	550.3	543.1	527.5	500.7	461.8	409.3	347.2	281.2	219.4	167.7
117.5°	520.5	518.1	507.9	489.9	461.9	422.4	375.4	321.7	266.0	212.6	168.3
120°	494.2	492.1	483.5	463.5	435.4	399.3	356.5	308.3	258.0	209.4	169.6
122.5°	469.7	467.0	457.6	439.6	414.5	381.0	341.3	297.8	251.5	207.5	171.5
125°	435.4	432.9	423.9	408.3	385.5	356.9	322.7	283.7	243.1	204.8	174.5
127.5°	407.1	404.9	396.8	383.3	363.0	337.0	306.1	271.5	235.6	203.6	177.9
130°	391.1	388.3	380.8	367.9	349.0	324.8	295.9	263.7	231.6	202.7	180.3
132.5°	375.5	373.4	366.8	354.0	336.2	313.1	286.1	256.6	227.9	202.4	182.0
135°	352.9	350.4	344.1	333.4	315.8	295.5	272.3	246.9	223.1	202.0	184.5
137.5°	329.2	327.5	322.1	311.2	296.6	278.9	258.9	238.1	218.8	201.2	186.2
140°	312.7	313.0	307.3	297.3	283.7	268.3	251.3	233.1	216.2	201.0	187.3
142.5°	297.2	297.5	292.5	283.6	272.0	258.6	243.8	228.2	214.0	200.4	188.2
145°	275.9	275.2	272.3	264.8	255.9	245.5	234.1	222.4	210.9	199.4	188.7
147.5°	258.3	258.0	255.3	250.2	243.5	236.1	226.9	217.5	207.9	198.1	188.7
150°	248.0	248.0	245.9	242.0	236.6	229.8	222.4	214.1	205.9	197.0	188.7
152.5°	239.4	239.4	238.1	234.5	230.4	224.7	218.0	211.0	203.6	195.6	187.9
155°	228.7	228.4	227.7	224.8	221.6	217.3	212.0	206.3	200.2	193.1	187.0
157.5°	218.9	219.0	218.4	216.3	213.6	210.2	206.0	201.3	196.3	190.9	185.8
160°	212.7	213.1	213.1	210.9	208.4	205.9	202.4	198.4	193.8	189.1	185.2
162.5°	207.0	207.3	207.3	205.5	203.9	201.7	198.3	195.0	191.2	187.4	184.1
165°	199.4	199.4	199.9	198.4	197.0	195.2	192.7	190.6	187.7	184.9	182.4
167.5°	192.4	192.4	192.7	191.7	191.1	189.8	188.3	186.7	184.4	182.3	180.7
170°	188.0	188.0	188.4	187.7	187.3	186.6	185.2	184.1	182.4	180.6	179.6
172.5°	184.1	184.4	185.0	184.3	184.2	183.8	182.7	181.9	180.4	179.2	178.6
175°	179.6	179.9	180.3	179.9	179.9	179.9	179.2	178.7	178.0	177.3	177.3
177.5°	176.8	176.8	177.4	177.1	177.4	177.4	177.1	176.8	176.6	176.3	176.6
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



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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	4.1	3.9	4.4	4.3	5.4	6.2	6.5	5.9	6.1
90°	6.8	5.8	4.6	3.9	3.2	2.1	1.4	0.7	1.4	2.1	3.2
92.5°	45.3	30.0	20.6	15.3	12.3	9.6	6.6	4.4	6.6	9.6	12.3
95°	129.9	76.7	46.4	32.5	23.2	17.2	13.2	12.1	13.2	17.2	23.2
97.5°	142.5	82.6	53.6	38.6	29.4	24.1	21.0	20.7	21.0	24.1	29.4
100°	134.5	81.7	56.8	42.8	34.2	29.3	26.8	26.5	26.8	29.3	34.2
102.5°	127.6	82.9	60.5	47.7	40.0	35.2	33.0	32.4	33.0	35.2	40.0
105°	122.8	86.0	66.8	55.6	48.9	44.6	42.5	41.4	42.5	44.6	48.9
107.5°	122.4	91.9	74.9	64.6	58.3	54.1	52.0	51.0	52.0	54.1	58.3
110°	123.8	96.7	80.7	70.7	64.6	60.7	58.9	57.8	58.9	60.7	64.6



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	126.7	101.6	86.6	77.0	70.9	67.0	65.1	64.1	65.1	67.0	70.9
115°	131.3	109.6	96.0	86.3	80.3	76.7	74.6	73.1	74.6	76.7	80.3
117.5°	137.4	118.1	104.6	95.7	89.0	85.6	83.8	82.2	83.8	85.6	89.0
120°	142.0	123.5	110.6	101.7	94.9	91.4	89.6	88.5	89.6	91.4	94.9
122.5°	146.3	129.2	116.6	107.1	100.7	96.7	95.0	93.9	95.0	96.7	100.7
125°	153.1	137.4	124.9	115.2	108.5	104.5	102.4	101.7	102.4	104.5	108.5
127.5°	158.6	144.5	132.5	122.8	115.3	111.4	108.7	107.7	108.7	111.4	115.3
130°	162.4	148.9	137.0	127.4	119.9	115.6	112.4	111.4	112.4	115.6	119.9
132.5°	165.8	152.5	141.1	131.7	124.2	119.1	115.5	114.2	115.5	119.1	124.2
135°	170.3	158.0	147.0	137.4	129.9	124.5	120.6	119.2	120.6	124.5	129.9
137.5°	173.5	162.0	151.3	142.4	134.9	129.3	125.4	123.9	125.4	129.3	134.9
140°	175.2	164.5	154.2	145.2	138.1	132.4	128.9	127.0	128.9	132.4	138.1
142.5°	176.9	166.5	156.4	148.1	141.0	135.8	132.0	130.5	132.0	135.8	141.0
145°	178.7	169.2	159.9	151.7	145.6	140.3	137.0	135.9	137.0	140.3	145.6
147.5°	180.0	171.3	162.8	155.8	150.0	145.3	142.2	141.6	142.2	145.3	150.0
150°	180.3	172.7	164.5	158.0	153.1	148.5	145.6	145.2	145.6	148.5	153.1
152.5°	180.8	173.6	166.5	160.4	155.9	151.9	149.1	149.0	149.1	151.9	155.9
155°	181.0	175.2	169.2	164.2	160.3	156.6	154.5	154.5	154.5	156.6	160.3
157.5°	181.3	176.1	171.3	167.4	164.1	161.0	159.3	159.0	159.3	161.0	164.1
160°	181.3	177.0	172.7	169.2	166.6	163.8	162.4	162.4	162.4	163.8	166.6
162.5°	181.0	177.3	173.6	170.6	168.3	166.1	164.9	164.9	164.9	166.1	168.3
165°	180.3	177.7	174.9	172.4	171.0	169.2	168.4	168.7	168.4	169.2	171.0
167.5°	179.7	177.6	175.6	174.0	173.0	171.7	171.3	171.7	171.3	171.7	173.0
170°	178.7	177.3	175.6	174.9	174.1	173.1	172.7	173.4	172.7	173.1	174.1
172.5°	178.5	177.3	175.8	175.4	175.0	174.2	174.1	174.6	174.1	174.2	175.0
175°	177.7	177.0	176.3	175.9	175.9	175.2	175.6	175.9	175.6	175.2	175.9
177.5°	177.1	176.6	176.3	176.3	176.3	176.0	176.3	176.6	176.3	176.0	176.3
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

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°	6.1	6.8	7.2	7.6	8.0	8.0	8.1	8.2	8.5	8.5	8.7
90°	3.9	4.6	5.8	6.8	7.9	8.9	8.6	8.9	9.3	9.6	10.3
92.5°	15.3	20.6	30.0	45.3	60.4	54.8	41.4	30.1	23.8	21.0	19.2
95°	32.5	46.4	76.7	129.9	188.4	211.7	171.7	128.5	87.1	68.2	55.3
97.5°	38.6	53.6	82.6	142.5	240.1	328.0	350.8	320.2	256.5	210.5	167.8
100°	42.8	56.8	81.7	134.5	228.4	338.0	408.3	420.7	391.8	350.1	299.4
102.5°	47.7	60.5	82.9	127.6	211.3	319.4	411.1	454.1	453.2	428.9	396.8
105°	55.6	66.8	86.0	122.8	190.3	286.9	389.3	463.9	499.6	506.3	497.2
107.5°	64.6	74.9	91.9	122.4	176.8	258.2	351.2	435.8	493.7	525.0	537.8
110°	70.7	80.7	96.7	123.8	171.7	242.0	327.3	409.0	474.6	519.6	544.6



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	77.0	86.6	101.6	126.7	168.7	231.1	306.4	382.4	449.5	499.9	532.0
115°	86.3	96.0	109.6	131.3	167.7	219.4	281.2	347.2	409.3	461.8	500.7
117.5°	95.7	104.6	118.1	137.4	168.3	212.6	266.0	321.7	375.4	422.4	461.9
120°	101.7	110.6	123.5	142.0	169.6	209.4	258.0	308.3	356.5	399.3	435.4
122.5°	107.1	116.6	129.2	146.3	171.5	207.5	251.5	297.8	341.3	381.0	414.5
125°	115.2	124.9	137.4	153.1	174.5	204.8	243.1	283.7	322.7	356.9	385.5
127.5°	122.8	132.5	144.5	158.6	177.9	203.6	235.6	271.5	306.1	337.0	363.0
130°	127.4	137.0	148.9	162.4	180.3	202.7	231.6	263.7	295.9	324.8	349.0
132.5°	131.7	141.1	152.5	165.8	182.0	202.4	227.9	256.6	286.1	313.1	336.2
135°	137.4	147.0	158.0	170.3	184.5	202.0	223.1	246.9	272.3	295.5	315.8
137.5°	142.4	151.3	162.0	173.5	186.2	201.2	218.8	238.1	258.9	278.9	296.6
140°	145.2	154.2	164.5	175.2	187.3	201.0	216.2	233.1	251.3	268.3	283.7
142.5°	148.1	156.4	166.5	176.9	188.2	200.4	214.0	228.2	243.8	258.6	272.0
145°	151.7	159.9	169.2	178.7	188.7	199.4	210.9	222.4	234.1	245.5	255.9
147.5°	155.8	162.8	171.3	180.0	188.7	198.1	207.9	217.5	226.9	236.1	243.5
150°	158.0	164.5	172.7	180.3	188.7	197.0	205.9	214.1	222.4	229.8	236.6
152.5°	160.4	166.5	173.6	180.8	187.9	195.6	203.6	211.0	218.0	224.7	230.4
155°	164.2	169.2	175.2	181.0	187.0	193.1	200.2	206.3	212.0	217.3	221.6
157.5°	167.4	171.3	176.1	181.3	185.8	190.9	196.3	201.3	206.0	210.2	213.6
160°	169.2	172.7	177.0	181.3	185.2	189.1	193.8	198.4	202.4	205.9	208.4
162.5°	170.6	173.6	177.3	181.0	184.1	187.4	191.2	195.0	198.3	201.7	203.9
165°	172.4	174.9	177.7	180.3	182.4	184.9	187.7	190.6	192.7	195.2	197.0
167.5°	174.0	175.6	177.6	179.7	180.7	182.3	184.4	186.7	188.3	189.8	191.1
170°	174.9	175.6	177.3	178.7	179.6	180.6	182.4	184.1	185.2	186.6	187.3
172.5°	175.4	175.8	177.3	178.5	178.6	179.2	180.4	181.9	182.7	183.8	184.2
175°	175.9	176.3	177.0	177.7	177.3	177.3	178.0	178.7	179.2	179.9	179.9
177.5°	176.3	176.3	176.6	177.1	176.6	176.3	176.6	176.8	177.1	177.4	177.4
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

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	8.7	8.5	8.5	8.2
90°	10.0	10.3	10.7	10.3	10.7	10.3	10.0	10.3	9.6	9.3	8.9
92.5°	18.6	17.5	17.9	17.2	17.9	17.5	18.6	19.2	21.0	23.8	30.1
95°	48.6	45.3	42.8	41.4	42.8	45.3	48.6	55.3	68.2	87.1	128.5
97.5°	141.5	125.4	115.7	112.7	115.7	125.4	141.5	167.8	210.5	256.5	320.2
100°	263.4	237.3	223.4	223.8	223.4	237.3	263.4	299.4	350.1	391.8	420.7
102.5°	368.7	348.1	336.5	328.2	336.5	348.1	368.7	396.8	428.9	453.2	454.1
105°	480.7	467.2	455.8	453.9	455.8	467.2	480.7	497.2	506.3	499.6	463.9
107.5°	538.1	533.4	529.6	526.3	529.6	533.4	538.1	537.8	525.0	493.7	435.8
110°	554.6	557.4	556.7	556.0	556.7	557.4	554.6	544.6	519.6	474.6	409.0



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	550.3	559.2	561.9	562.0	561.9	559.2	550.3	532.0	499.9	449.5	382.4
115°	527.5	543.1	550.3	552.1	550.3	543.1	527.5	500.7	461.8	409.3	347.2
117.5°	489.9	507.9	518.1	520.5	518.1	507.9	489.9	461.9	422.4	375.4	321.7
120°	463.5	483.5	492.1	494.2	492.1	483.5	463.5	435.4	399.3	356.5	308.3
122.5°	439.6	457.6	467.0	469.7	467.0	457.6	439.6	414.5	381.0	341.3	297.8
125°	408.3	423.9	432.9	435.4	432.9	423.9	408.3	385.5	356.9	322.7	283.7
127.5°	383.3	396.8	404.9	407.1	404.9	396.8	383.3	363.0	337.0	306.1	271.5
130°	367.9	380.8	388.3	391.1	388.3	380.8	367.9	349.0	324.8	295.9	263.7
132.5°	354.0	366.8	373.4	375.5	373.4	366.8	354.0	336.2	313.1	286.1	256.6
135°	333.4	344.1	350.4	352.9	350.4	344.1	333.4	315.8	295.5	272.3	246.9
137.5°	311.2	322.1	327.5	329.2	327.5	322.1	311.2	296.6	278.9	258.9	238.1
140°	297.3	307.3	313.0	312.7	313.0	307.3	297.3	283.7	268.3	251.3	233.1
142.5°	283.6	292.5	297.5	297.2	297.5	292.5	283.6	272.0	258.6	243.8	228.2
145°	264.8	272.3	275.2	275.9	275.2	272.3	264.8	255.9	245.5	234.1	222.4
147.5°	250.2	255.3	258.0	258.3	258.0	255.3	250.2	243.5	236.1	226.9	217.5
150°	242.0	245.9	248.0	248.0	248.0	245.9	242.0	236.6	229.8	222.4	214.1
152.5°	234.5	238.1	239.4	239.4	239.4	238.1	234.5	230.4	224.7	218.0	211.0
155°	224.8	227.7	228.4	228.7	228.4	227.7	224.8	221.6	217.3	212.0	206.3
157.5°	216.3	218.4	219.0	218.9	219.0	218.4	216.3	213.6	210.2	206.0	201.3
160°	210.9	213.1	213.1	212.7	213.1	213.1	210.9	208.4	205.9	202.4	198.4
162.5°	205.5	207.3	207.3	207.0	207.3	207.3	205.5	203.9	201.7	198.3	195.0
165°	198.4	199.9	199.4	199.4	199.4	199.9	198.4	197.0	195.2	192.7	190.6
167.5°	191.7	192.7	192.4	192.4	192.4	192.7	191.7	191.1	189.8	188.3	186.7
170°	187.7	188.4	188.0	188.0	188.0	188.4	187.7	187.3	186.6	185.2	184.1
172.5°	184.3	185.0	184.4	184.1	184.4	185.0	184.3	184.2	183.8	182.7	181.9
175°	179.9	180.3	179.9	179.6	179.9	180.3	179.9	179.9	179.9	179.2	178.7
177.5°	177.1	177.4	176.8	176.8	176.8	177.4	177.1	177.4	177.4	177.1	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

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°	8.1	8.0	8.0	7.6	7.2	6.8	6.1	6.1	5.9	6.5	6.2
90°	8.6	8.9	7.9	6.8	5.8	4.6	3.9	3.2	2.1	1.4	0.7
92.5°	41.4	54.8	60.4	45.3	30.0	20.6	15.3	12.3	9.6	6.6	4.4
95°	171.7	211.7	188.4	129.9	76.7	46.4	32.5	23.2	17.2	13.2	12.1
97.5°	350.8	328.0	240.1	142.5	82.6	53.6	38.6	29.4	24.1	21.0	20.7
100°	408.3	338.0	228.4	134.5	81.7	56.8	42.8	34.2	29.3	26.8	26.5
102.5°	411.1	319.4	211.3	127.6	82.9	60.5	47.7	40.0	35.2	33.0	32.4
105°	389.3	286.9	190.3	122.8	86.0	66.8	55.6	48.9	44.6	42.5	41.4
107.5°	351.2	258.2	176.8	122.4	91.9	74.9	64.6	58.3	54.1	52.0	51.0
110°	327.3	242.0	171.7	123.8	96.7	80.7	70.7	64.6	60.7	58.9	57.8



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	306.4	231.1	168.7	126.7	101.6	86.6	77.0	70.9	67.0	65.1	64.1
115°	281.2	219.4	167.7	131.3	109.6	96.0	86.3	80.3	76.7	74.6	73.1
117.5°	266.0	212.6	168.3	137.4	118.1	104.6	95.7	89.0	85.6	83.8	82.2
120°	258.0	209.4	169.6	142.0	123.5	110.6	101.7	94.9	91.4	89.6	88.5
122.5°	251.5	207.5	171.5	146.3	129.2	116.6	107.1	100.7	96.7	95.0	93.9
125°	243.1	204.8	174.5	153.1	137.4	124.9	115.2	108.5	104.5	102.4	101.7
127.5°	235.6	203.6	177.9	158.6	144.5	132.5	122.8	115.3	111.4	108.7	107.7
130°	231.6	202.7	180.3	162.4	148.9	137.0	127.4	119.9	115.6	112.4	111.4
132.5°	227.9	202.4	182.0	165.8	152.5	141.1	131.7	124.2	119.1	115.5	114.2
135°	223.1	202.0	184.5	170.3	158.0	147.0	137.4	129.9	124.5	120.6	119.2
137.5°	218.8	201.2	186.2	173.5	162.0	151.3	142.4	134.9	129.3	125.4	123.9
140°	216.2	201.0	187.3	175.2	164.5	154.2	145.2	138.1	132.4	128.9	127.0
142.5°	214.0	200.4	188.2	176.9	166.5	156.4	148.1	141.0	135.8	132.0	130.5
145°	210.9	199.4	188.7	178.7	169.2	159.9	151.7	145.6	140.3	137.0	135.9
147.5°	207.9	198.1	188.7	180.0	171.3	162.8	155.8	150.0	145.3	142.2	141.6
150°	205.9	197.0	188.7	180.3	172.7	164.5	158.0	153.1	148.5	145.6	145.2
152.5°	203.6	195.6	187.9	180.8	173.6	166.5	160.4	155.9	151.9	149.1	149.0
155°	200.2	193.1	187.0	181.0	175.2	169.2	164.2	160.3	156.6	154.5	154.5
157.5°	196.3	190.9	185.8	181.3	176.1	171.3	167.4	164.1	161.0	159.3	159.0
160°	193.8	189.1	185.2	181.3	177.0	172.7	169.2	166.6	163.8	162.4	162.4
162.5°	191.2	187.4	184.1	181.0	177.3	173.6	170.6	168.3	166.1	164.9	164.9
165°	187.7	184.9	182.4	180.3	177.7	174.9	172.4	171.0	169.2	168.4	168.7
167.5°	184.4	182.3	180.7	179.7	177.6	175.6	174.0	173.0	171.7	171.3	171.7
170°	182.4	180.6	179.6	178.7	177.3	175.6	174.9	174.1	173.1	172.7	173.4
172.5°	180.4	179.2	178.6	178.5	177.3	175.8	175.4	175.0	174.2	174.1	174.6
175°	178.0	177.3	177.3	177.7	177.0	176.3	175.9	175.9	175.2	175.6	175.9
177.5°	176.6	176.3	176.6	177.1	176.6	176.3	176.3	176.3	176.0	176.3	176.6
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

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	4.4	3.9	4.1	3.9	4.3	4.2	4.2	4.3	4.0
90°	1.4	2.1	3.2	3.9	4.6	5.8	6.8	7.9	8.9	8.6	8.9
92.5°	6.6	9.6	12.3	15.3	20.6	30.0	45.3	60.4	54.8	41.4	30.1
95°	13.2	17.2	23.2	32.5	46.4	76.7	129.9	188.4	211.7	171.7	128.5
97.5°	21.0	24.1	29.4	38.6	53.6	82.6	142.5	240.1	328.0	350.8	320.2
100°	26.8	29.3	34.2	42.8	56.8	81.7	134.5	228.4	338.0	408.3	420.7
102.5°	33.0	35.2	40.0	47.7	60.5	82.9	127.6	211.3	319.4	411.1	454.1
105°	42.5	44.6	48.9	55.6	66.8	86.0	122.8	190.3	286.9	389.3	463.9
107.5°	52.0	54.1	58.3	64.6	74.9	91.9	122.4	176.8	258.2	351.2	435.8
110°	58.9	60.7	64.6	70.7	80.7	96.7	123.8	171.7	242.0	327.3	409.0



TEST NUMBER: P332242-840

CATALOG NUMBER: S123RDIP-S340D365U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	65.1	67.0	70.9	77.0	86.6	101.6	126.7	168.7	231.1	306.4	382.4
115°	74.6	76.7	80.3	86.3	96.0	109.6	131.3	167.7	219.4	281.2	347.2
117.5°	83.8	85.6	89.0	95.7	104.6	118.1	137.4	168.3	212.6	266.0	321.7
120°	89.6	91.4	94.9	101.7	110.6	123.5	142.0	169.6	209.4	258.0	308.3
122.5°	95.0	96.7	100.7	107.1	116.6	129.2	146.3	171.5	207.5	251.5	297.8
125°	102.4	104.5	108.5	115.2	124.9	137.4	153.1	174.5	204.8	243.1	283.7
127.5°	108.7	111.4	115.3	122.8	132.5	144.5	158.6	177.9	203.6	235.6	271.5
130°	112.4	115.6	119.9	127.4	137.0	148.9	162.4	180.3	202.7	231.6	263.7
132.5°	115.5	119.1	124.2	131.7	141.1	152.5	165.8	182.0	202.4	227.9	256.6
135°	120.6	124.5	129.9	137.4	147.0	158.0	170.3	184.5	202.0	223.1	246.9
137.5°	125.4	129.3	134.9	142.4	151.3	162.0	173.5	186.2	201.2	218.8	238.1
140°	128.9	132.4	138.1	145.2	154.2	164.5	175.2	187.3	201.0	216.2	233.1
142.5°	132.0	135.8	141.0	148.1	156.4	166.5	176.9	188.2	200.4	214.0	228.2
145°	137.0	140.3	145.6	151.7	159.9	169.2	178.7	188.7	199.4	210.9	222.4
147.5°	142.2	145.3	150.0	155.8	162.8	171.3	180.0	188.7	198.1	207.9	217.5
150°	145.6	148.5	153.1	158.0	164.5	172.7	180.3	188.7	197.0	205.9	214.1
152.5°	149.1	151.9	155.9	160.4	166.5	173.6	180.8	187.9	195.6	203.6	211.0
155°	154.5	156.6	160.3	164.2	169.2	175.2	181.0	187.0	193.1	200.2	206.3
157.5°	159.3	161.0	164.1	167.4	171.3	176.1	181.3	185.8	190.9	196.3	201.3
160°	162.4	163.8	166.6	169.2	172.7	177.0	181.3	185.2	189.1	193.8	198.4
162.5°	164.9	166.1	168.3	170.6	173.6	177.3	181.0	184.1	187.4	191.2	195.0
165°	168.4	169.2	171.0	172.4	174.9	177.7	180.3	182.4	184.9	187.7	190.6
167.5°	171.3	171.7	173.0	174.0	175.6	177.6	179.7	180.7	182.3	184.4	186.7
170°	172.7	173.1	174.1	174.9	175.6	177.3	178.7	179.6	180.6	182.4	184.1
172.5°	174.1	174.2	175.0	175.4	175.8	177.3	178.5	178.6	179.2	180.4	181.9
175°	175.6	175.2	175.9	175.9	176.3	177.0	177.7	177.3	177.3	178.0	178.7
177.5°	176.3	176.0	176.3	176.3	176.3	176.6	177.1	176.6	176.3	176.6	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3



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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	4.1	4.1	4.0	3.9	4.4	3.9
90°	9.3	9.6	10.3	10.0	10.3	10.7	10.3
92.5°	23.8	21.0	19.2	18.6	17.5	17.9	17.2
95°	87.1	68.2	55.3	48.6	45.3	42.8	41.4
97.5°	256.5	210.5	167.8	141.5	125.4	115.7	112.7
100°	391.8	350.1	299.4	263.4	237.3	223.4	223.8
102.5°	453.2	428.9	396.8	368.7	348.1	336.5	328.2
105°	499.6	506.3	497.2	480.7	467.2	455.8	453.9
107.5°	493.7	525.0	537.8	538.1	533.4	529.6	526.3
110°	474.6	519.6	544.6	554.6	557.4	556.7	556.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.5	499.9	532.0	550.3	559.2	561.9	562.0
115°	409.3	461.8	500.7	527.5	543.1	550.3	552.1
117.5°	375.4	422.4	461.9	489.9	507.9	518.1	520.5
120°	356.5	399.3	435.4	463.5	483.5	492.1	494.2
122.5°	341.3	381.0	414.5	439.6	457.6	467.0	469.7
125°	322.7	356.9	385.5	408.3	423.9	432.9	435.4
127.5°	306.1	337.0	363.0	383.3	396.8	404.9	407.1
130°	295.9	324.8	349.0	367.9	380.8	388.3	391.1
132.5°	286.1	313.1	336.2	354.0	366.8	373.4	375.5
135°	272.3	295.5	315.8	333.4	344.1	350.4	352.9
137.5°	258.9	278.9	296.6	311.2	322.1	327.5	329.2
140°	251.3	268.3	283.7	297.3	307.3	313.0	312.7
142.5°	243.8	258.6	272.0	283.6	292.5	297.5	297.2
145°	234.1	245.5	255.9	264.8	272.3	275.2	275.9
147.5°	226.9	236.1	243.5	250.2	255.3	258.0	258.3
150°	222.4	229.8	236.6	242.0	245.9	248.0	248.0
152.5°	218.0	224.7	230.4	234.5	238.1	239.4	239.4
155°	212.0	217.3	221.6	224.8	227.7	228.4	228.7
157.5°	206.0	210.2	213.6	216.3	218.4	219.0	218.9
160°	202.4	205.9	208.4	210.9	213.1	213.1	212.7
162.5°	198.3	201.7	203.9	205.5	207.3	207.3	207.0
165°	192.7	195.2	197.0	198.4	199.9	199.4	199.4
167.5°	188.3	189.8	191.1	191.7	192.7	192.4	192.4
170°	185.2	186.6	187.3	187.7	188.4	188.0	188.0
172.5°	182.7	183.8	184.2	184.3	185.0	184.4	184.1
175°	179.2	179.9	179.9	179.9	180.3	179.9	179.6
177.5°	177.1	177.4	177.4	177.1	177.4	176.8	176.8
180°	176.3	176.3	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)