

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: P332241

Luminaire Tested: **S123RDIP-S340D365U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332241
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: S123RDIP-S340D365U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.8 lumens
Efficiency: N/A
Efficacy: 128.2 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

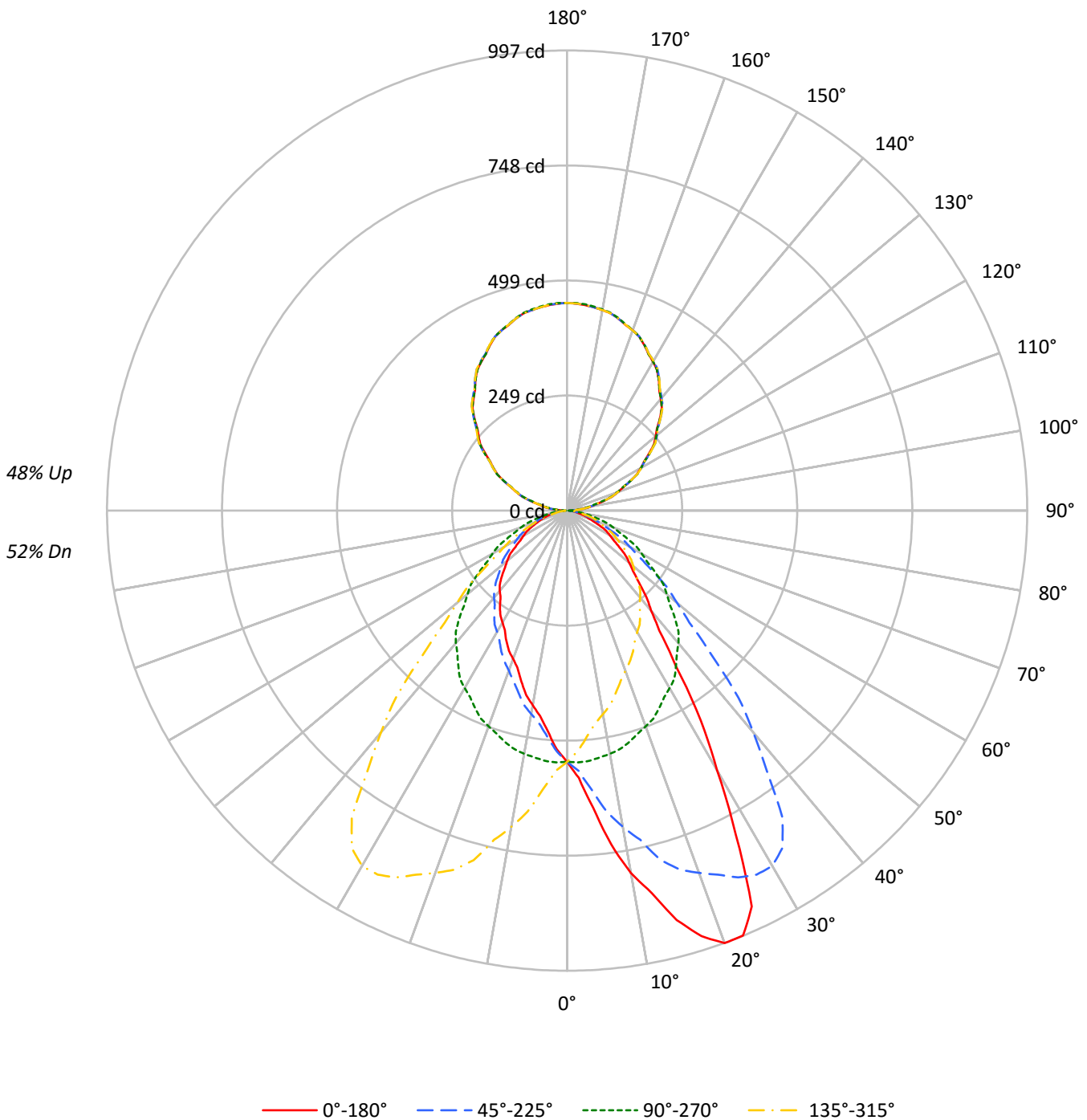
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332241

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	52	51	50	45
2	91	83	78	73	84	78	72	68	66	63	59	56	54	51	47	45	43	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	37	34
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	34	31	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	30	36	30	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	24	21	25	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5858	5858	5858	5858
5°	6983	5883	5181	5883
10°	8719	5850	4680	5850
15°	10234	5789	4268	5789
20°	11423	5700	3918	5700
25°	11240	5606	3702	5606
30°	8079	5520	3480	5520
35°	5394	5406	3336	5406
40°	3974	5271	3188	5271
45°	3334	5033	3043	5033
50°	2942	4721	2840	4721
55°	2580	4363	2562	4363
60°	2297	4021	2347	4021
65°	2017	3655	2183	3655
70°	1583	3330	1995	3330
75°	1393	2907	1822	2907
80°	1215	2467	1791	2467
85°	976	1988	1902	1988



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	2.1
10°-20°	167.2	6.4
20°-30°	262.7	10.1
30°-40°	274.1	10.5
40°-50°	234.5	9.0
50°-60°	178.8	6.9
60°-70°	114.6	4.4
70°-80°	55.1	2.1
80°-90°	15.9	0.6
90°-100°	29.3	1.1
100°-110°	87.7	3.4
110°-120°	149.2	5.7
120°-130°	196.2	7.5
130°-140°	220.6	8.5
140°-150°	216.8	8.3
150°-160°	182.5	7.0
160°-170°	121.5	4.7
170°-180°	42.5	1.6
0°-30°	483.4	18.6
0°-40°	757.5	29.1
0°-60°	1170.8	45.0
0°-90°	1356.4	52.1
90°-120°	266.2	10.2
90°-150°	899.9	34.6
90°-180°	1246.0	47.9
0°-180°	2602.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	544	544	544	544	544	
5°	646	544	480	544	646	67
15°	918	520	383	520	918	260
25°	946	472	312	472	946	407
35°	410	411	254	411	410	269
45°	219	331	200	331	219	172
55°	138	232	136	232	138	124
65°	79	144	86	144	79	78
75°	34	70	44	70	34	36
85°	8	16	15	16	8	9
90°	11	0	11	0	11	5
95°	28	21	28	21	28	28
105°	84	80	84	80	84	89
115°	150	150	150	150	150	149
125°	217	220	217	220	217	194
135°	285	285	285	285	285	219
145°	346	346	346	346	346	216
155°	395	396	395	396	395	182
165°	430	432	430	432	430	121
175°	447	449	447	449	447	42
180°	450	450	450	450	450	



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	579.7	580.4	578.0	577.6	574.8	574.1	574.1	570.1	567.7	564.6	562.7
5°	646.3	650.0	648.1	644.0	637.0	635.3	630.9	623.9	616.0	606.2	601.6
7.5°	729.5	734.6	732.6	726.2	718.8	712.9	700.4	688.8	672.6	658.3	646.1
10°	797.7	792.4	788.2	781.9	775.1	764.2	751.1	733.2	712.5	696.1	678.0
12.5°	848.8	847.9	842.6	836.1	826.6	816.2	800.1	778.3	754.2	730.6	709.8
15°	918.4	919.8	916.3	909.6	896.0	877.6	853.4	844.3	809.8	784.2	758.6
17.5°	966.6	966.3	965.8	956.5	942.7	929.6	907.1	883.2	852.0	815.9	781.4
20°	997.2	994.8	995.3	984.8	974.6	959.4	937.5	902.8	877.2	835.5	799.8
22.5°	996.4	995.9	997.7	994.1	986.7	975.1	957.8	928.5	895.8	853.7	813.6
25°	946.4	944.5	955.4	958.5	970.4	972.5	967.3	951.3	920.3	876.9	827.3
27.5°	792.0	791.0	811.3	836.8	869.0	894.1	918.3	930.0	920.3	889.2	839.5
30°	650.0	671.9	682.2	719.0	760.0	808.9	851.8	892.5	902.6	889.0	848.3
32.5°	539.7	558.8	567.4	598.9	637.2	694.5	758.8	816.5	857.3	867.6	843.1
35°	410.5	410.7	430.3	444.3	479.7	538.6	601.1	678.4	755.3	813.6	819.6
37.5°	327.6	328.7	340.6	354.5	381.1	412.2	467.2	531.5	620.3	709.7	762.2
40°	282.8	284.9	293.8	307.5	326.6	350.2	393.0	453.6	527.7	627.2	708.5
42.5°	254.1	257.5	262.1	272.7	284.5	306.6	341.2	388.0	455.4	549.5	643.3
45°	219.0	220.9	224.4	229.3	240.0	255.3	278.6	310.1	366.0	441.7	535.6
47.5°	193.2	192.2	195.9	199.8	207.0	217.5	233.1	258.7	298.6	359.4	439.0
50°	175.7	175.4	178.0	181.0	187.8	195.5	208.3	227.6	259.3	309.6	382.6
52.5°	159.3	160.1	162.0	165.7	170.6	176.8	188.3	202.3	229.5	272.9	333.7
55°	137.5	138.2	140.7	142.8	146.3	152.6	159.8	171.5	190.1	220.4	270.5
57.5°	119.0	118.7	121.1	121.7	125.6	130.7	136.3	145.4	158.9	181.4	215.1
60°	106.7	106.0	108.1	109.7	111.8	116.0	120.7	129.5	140.3	156.8	185.7
62.5°	95.5	95.2	96.7	98.4	100.1	103.9	107.8	114.6	123.1	137.0	160.0
65°	79.2	79.9	80.6	81.3	82.2	84.6	88.3	93.0	98.8	108.6	125.1
67.5°	62.3	63.0	63.2	64.6	66.6	68.1	70.4	74.5	78.6	86.8	96.2
70°	50.3	50.1	50.3	51.0	53.6	56.1	59.2	62.2	64.8	70.6	78.5
72.5°	43.2	42.8	43.4	43.6	44.8	45.5	47.4	50.3	53.6	57.5	63.2
75°	33.5	33.5	33.5	33.5	34.5	34.9	35.6	36.3	37.5	39.4	43.6
77.5°	24.8	24.8	25.2	25.4	25.6	25.9	26.3	27.0	27.4	28.4	30.2
80°	19.6	19.8	19.6	19.8	19.8	20.3	20.5	21.2	21.4	22.6	23.3
82.5°	14.7	14.6	14.7	15.0	15.0	15.4	15.5	16.0	16.0	16.6	17.3
85°	7.9	7.5	7.9	7.7	8.2	7.7	7.9	8.4	8.4	8.6	9.6
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°	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1	8.8	8.5	7.5
92.5°	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1	13.8	13.6	13.0
95°	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8	26.5	26.2	25.5
97.5°	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6	41.3	40.9	40.5
100°	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4	52.2	51.9	51.6
102.5°	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9	64.6	64.4	63.9
105°	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4	83.4	83.4	82.7
107.5°	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5	103.2	103.0	102.7
110°	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9	116.6	116.3	116.1



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3	129.9	129.6	129.5
115°	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7	150.6	150.5	150.7
117.5°	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3	171.3	171.3	171.5
120°	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0	185.1	185.2	185.6
122.5°	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9	199.1	199.3	199.5
125°	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5	219.8	220.2	220.3
127.5°	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9	240.4	240.8	241.0
130°	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5	253.8	254.1	254.3
132.5°	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6	267.0	267.4	267.5
135°	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3	286.6	287.0	287.0
137.5°	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6	305.9	306.2	306.0
140°	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2	318.3	318.4	318.3
142.5°	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1	330.2	330.3	330.1
145°	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6	347.7	347.7	347.5
147.5°	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2	374.2	374.2	374.1
152.5°	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5	383.4	383.3	383.2
155°	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1	396.8	396.5	396.4
157.5°	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8	408.5	408.2	408.1
160°	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0	415.6	415.2	415.2
162.5°	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8	422.4	422.0	422.0
165°	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4	430.9	430.4	430.4
167.5°	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3	437.8	437.4	437.3
170°	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1	441.6	441.0	441.0
172.5°	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1	444.6	444.1	444.1
175°	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3	447.9	447.4	447.4
177.5°	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8	449.4	449.0	449.0
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	561.9	561.4	558.8	555.8	551.9	549.3	547.2	546.1	542.7	538.6	535.9
5°	596.7	589.7	582.2	573.1	564.7	556.1	550.8	544.5	536.8	528.2	522.1
7.5°	633.8	620.1	605.4	590.1	575.1	561.6	549.6	539.4	527.2	514.8	506.2
10°	662.4	642.3	621.6	600.4	581.1	562.9	548.9	535.2	520.5	506.3	495.5
12.5°	688.3	661.9	638.0	611.9	587.2	565.5	545.4	529.2	511.5	496.4	484.2
15°	721.1	694.0	665.2	625.5	592.7	565.2	540.7	519.5	498.1	479.5	467.6
17.5°	751.7	711.1	672.2	639.2	596.5	562.2	532.3	507.0	483.4	463.7	449.0
20°	764.4	725.0	682.9	640.7	598.8	560.3	525.6	497.6	473.2	450.8	437.3
22.5°	772.0	727.5	683.0	637.7	593.2	553.2	518.9	488.1	461.6	440.4	423.7
25°	780.9	727.8	678.9	634.2	588.7	545.4	504.6	472.0	443.4	420.8	403.1
27.5°	786.8	724.3	666.5	616.8	570.7	527.6	490.2	455.6	426.5	402.6	383.6
30°	787.9	721.5	657.0	603.2	556.4	516.7	477.1	444.1	413.3	387.9	370.2
32.5°	789.4	714.6	644.1	587.0	539.0	499.8	463.9	432.3	400.8	375.8	357.7
35°	783.3	710.8	624.6	558.9	510.9	472.9	440.6	411.4	380.5	356.2	337.8
37.5°	756.8	695.7	604.4	527.3	477.1	442.0	415.6	390.2	361.8	335.6	318.3
40°	730.2	680.8	588.7	508.1	455.7	419.6	395.8	375.1	347.6	323.1	304.5
42.5°	690.5	660.4	573.8	488.0	431.5	396.7	376.6	357.2	333.1	308.2	290.7
45°	617.6	621.6	543.3	455.9	397.9	363.0	344.1	330.6	309.2	288.7	270.7
47.5°	526.3	563.3	507.5	421.8	362.6	329.8	313.3	301.5	287.0	266.9	250.5
50°	466.7	519.5	478.8	398.9	340.4	307.8	291.5	281.9	269.3	253.5	237.9
52.5°	411.7	468.5	444.1	373.3	316.3	286.5	270.6	262.7	252.7	237.8	223.7
55°	335.7	393.3	387.7	334.8	280.3	253.5	241.4	232.5	225.8	214.6	203.4
57.5°	271.6	326.1	329.0	291.9	248.5	222.0	211.6	204.9	200.5	192.1	181.7
60°	231.1	281.2	291.0	263.0	225.8	202.5	192.2	186.8	183.4	176.6	168.7
62.5°	197.6	240.2	251.3	231.2	204.0	182.1	174.1	169.0	166.6	160.8	153.8
65°	151.2	186.6	197.3	186.2	171.9	154.5	147.9	143.5	141.4	138.2	133.0
67.5°	113.7	139.5	151.3	143.4	138.2	127.2	123.1	120.7	118.8	116.6	112.3
70°	91.3	110.4	122.5	120.5	116.3	110.4	107.4	105.8	103.9	102.0	98.3
72.5°	73.4	86.6	97.9	99.0	95.6	94.4	91.7	91.0	89.9	87.7	85.6
75°	48.7	57.8	65.7	68.7	70.1	71.3	70.1	69.9	69.7	67.8	66.6
77.5°	31.9	36.8	41.8	47.0	49.2	50.7	51.1	52.0	51.3	50.4	49.8
80°	24.5	25.6	29.1	33.5	37.0	38.4	39.4	39.8	39.6	39.4	38.4
82.5°	17.8	18.7	20.4	23.5	26.4	28.7	29.3	29.2	29.7	29.9	29.1
85°	9.6	9.8	10.3	10.7	12.3	14.9	15.6	16.1	16.5	16.5	15.1
87.5°	4.3	3.9	4.0	3.9	4.3	4.3	5.3	6.0	6.4	5.8	5.9
90°	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4	1.1	1.9	2.7
92.5°	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6	9.1	9.6	10.2
95°	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9	21.4	21.9	22.5
97.5°	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0	37.4	37.9	38.3
100°	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1	48.5	49.0	49.5
102.5°	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8	61.1	61.3	61.6
105°	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5	79.7	79.8	80.0
107.5°	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3	101.4	101.5	101.6
110°	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9	115.0	115.2	115.3



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0	129.1	129.2	129.3
115°	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2	150.4	150.7	150.9
117.5°	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5	171.7	171.9	172.0
120°	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8	185.3	185.8	186.2
122.5°	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7	199.0	199.4	199.7
125°	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8	220.0	220.3	220.5
127.5°	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3	239.8	240.3	240.8
130°	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3	252.9	253.6	254.2
132.5°	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3	266.0	266.6	267.2
135°	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2	285.7	286.1	286.6
137.5°	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6	304.0	304.3	304.7
140°	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3	316.7	317.1	317.5
142.5°	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9	328.3	328.7	329.1
145°	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0	346.1	346.3	346.4
147.5°	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8	362.1	362.4	362.7
150°	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8	373.0	373.1	373.3
152.5°	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9	382.1	382.3	382.5
155°	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3	408.2	408.1	408.0
160°	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9	415.8	415.6	415.5
162.5°	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7	422.5	422.3	422.1
165°	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5	431.3	431.0	430.8
167.5°	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5	438.2	437.9	437.5
170°	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4	442.1	441.8	441.5
172.5°	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6	445.2	444.9	444.6
175°	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8	448.5	448.2	447.9
177.5°	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1	449.9	449.6	449.4
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	534.9	532.5	530.8	527.1	524.7	522.1	519.5	521.1	520.9	520.8	520.8
5°	517.0	511.6	506.7	500.4	496.5	491.6	487.9	487.4	488.3	485.1	483.2
7.5°	499.2	491.9	484.9	478.0	470.6	464.7	461.1	459.3	457.0	455.0	452.9
10°	486.7	478.1	471.3	462.7	454.8	447.8	443.4	440.3	438.7	437.1	434.0
12.5°	473.8	465.4	456.8	447.0	439.5	431.4	428.1	424.7	421.6	419.7	415.6
15°	455.0	444.1	435.0	424.7	416.3	408.4	403.8	397.0	396.1	393.7	389.5
17.5°	436.1	424.3	411.7	404.1	394.7	386.4	379.3	377.1	370.4	367.9	364.2
20°	421.2	410.3	400.7	390.7	377.0	369.3	363.7	360.7	355.3	352.0	349.7
22.5°	408.4	397.2	386.2	374.5	363.2	354.5	350.4	345.7	342.8	338.2	335.7
25°	390.0	377.9	364.6	352.0	343.9	337.4	330.8	326.6	322.4	320.3	315.7
27.5°	368.7	356.0	343.6	334.0	324.0	317.6	311.7	308.0	302.9	299.4	296.8
30°	356.9	342.0	331.3	322.7	309.9	303.8	299.4	294.7	291.0	287.3	284.7
32.5°	343.3	329.7	319.6	308.9	299.1	292.4	286.7	282.6	279.4	275.9	273.3
35°	322.0	310.6	300.1	289.4	282.1	275.4	268.6	265.1	262.1	258.8	256.5
37.5°	302.7	292.0	282.0	271.9	262.9	257.4	252.0	249.3	245.2	243.0	240.7
40°	290.8	280.3	269.6	259.8	250.5	246.3	241.4	237.4	233.7	232.0	229.5
42.5°	277.7	267.2	258.2	247.7	240.0	234.3	229.8	225.5	222.7	220.3	218.9
45°	258.4	249.1	240.2	229.7	222.5	217.6	212.5	208.5	206.0	204.3	201.8
47.5°	239.6	230.3	221.3	212.2	205.2	199.6	194.4	191.7	188.3	186.3	184.6
50°	226.0	217.6	208.1	199.7	192.7	187.1	182.9	179.4	176.4	173.8	172.6
52.5°	213.5	204.6	196.3	188.5	181.1	174.8	171.0	167.3	165.0	162.1	160.7
55°	192.9	184.3	177.3	169.6	162.4	157.0	152.4	149.1	146.8	143.5	141.7
57.5°	173.6	165.8	157.5	150.8	143.4	138.9	135.0	130.6	127.7	125.2	123.3
60°	160.5	151.7	144.4	138.2	131.6	125.8	122.3	118.8	115.8	113.2	111.6
62.5°	146.9	139.2	132.3	125.5	119.5	114.4	110.4	107.5	104.8	103.2	101.5
65°	126.0	120.0	113.0	107.4	101.8	98.1	94.8	92.3	90.4	89.2	87.8
67.5°	106.8	101.0	94.9	89.4	85.6	82.8	80.7	78.5	77.5	76.0	75.1
70°	94.4	88.3	82.9	78.7	75.0	72.9	71.5	69.9	69.0	67.1	66.2
72.5°	80.8	76.4	72.5	69.1	66.1	64.2	62.4	60.4	58.9	56.8	55.9
75°	63.6	59.6	56.6	54.3	52.4	49.9	47.3	45.2	44.5	43.8	43.6
77.5°	47.1	44.6	42.4	40.4	38.1	36.3	35.7	35.2	35.1	34.7	34.7
80°	37.0	34.7	33.1	30.8	29.4	29.4	29.4	28.9	29.1	29.1	29.1
82.5°	27.5	25.4	24.5	23.7	23.4	23.6	23.6	23.7	23.5	23.9	23.7
85°	14.2	14.4	14.9	14.7	14.9	14.9	15.4	15.1	15.4	14.9	15.4
87.5°	5.9	6.7	7.0	7.4	7.8	7.8	8.1	8.2	8.4	8.5	8.5
90°	3.5	4.4	5.4	6.4	7.5	8.5	8.8	9.1	9.4	9.7	10.0
92.5°	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1	14.3	14.6	14.7
95°	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8	27.1	27.4	27.6
97.5°	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6	42.0	42.4	42.5
100°	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4	52.7	52.9	53.1
102.5°	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9	65.1	65.3	65.4
105°	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4	83.4	83.4	83.5
107.5°	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5	103.7	104.0	104.1
110°	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9	117.2	117.5	117.6



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3	130.7	131.1	131.2
115°	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7	150.8	150.9	150.9
117.5°	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3	171.3	171.3	171.1
120°	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0	184.9	184.9	184.7
122.5°	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9	198.7	198.5	198.3
125°	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5	219.2	218.9	218.6
127.5°	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9	239.5	239.0	238.6
130°	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5	253.1	252.8	252.4
132.5°	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6	266.2	265.9	265.5
135°	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3	286.0	285.7	285.5
137.5°	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6	305.3	304.9	304.6
140°	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2	318.2	318.1	317.8
142.5°	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1	330.0	330.0	329.7
145°	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6	347.5	347.4	347.2
147.5°	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1	364.1	364.1	363.8
150°	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2	374.2	374.2	374.0
152.5°	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5	383.7	383.8	383.6
155°	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1	397.4	397.8	397.6
157.5°	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8	409.2	409.5	409.4
160°	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0	416.4	416.8	416.8
162.5°	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8	423.2	423.6	423.5
165°	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4	431.8	432.3	432.3
167.5°	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3	438.8	439.3	439.3
170°	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1	442.7	443.2	443.2
172.5°	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1	445.6	446.1	446.1
175°	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3	448.8	449.3	449.2
177.5°	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8	450.1	450.5	450.5
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	518.5	518.3	518.5	517.8	518.5	518.3	518.5	520.8	520.8	520.9	521.1
5°	482.5	482.3	481.6	479.5	481.6	482.3	482.5	483.2	485.1	488.3	487.4
7.5°	451.0	450.7	448.7	448.7	448.7	450.7	451.0	452.9	455.0	457.0	459.3
10°	432.4	432.6	429.8	428.2	429.8	432.6	432.4	434.0	437.1	438.7	440.3
12.5°	414.3	413.3	411.0	409.2	411.0	413.3	414.3	415.6	419.7	421.6	424.7
15°	390.5	388.1	382.6	383.0	382.6	388.1	390.5	389.5	393.7	396.1	397.0
17.5°	362.4	360.7	360.6	357.3	360.6	360.7	362.4	364.2	367.9	370.4	377.1
20°	346.0	344.8	345.3	342.0	345.3	344.8	346.0	349.7	352.0	355.3	360.7
22.5°	333.1	331.9	330.0	329.0	330.0	331.9	333.1	335.7	338.2	342.8	345.7
25°	314.3	312.4	310.6	311.7	310.6	312.4	314.3	315.7	320.3	322.4	326.6
27.5°	295.5	294.1	292.2	292.0	292.2	294.1	295.5	296.8	299.4	302.9	308.0
30°	283.5	282.1	281.2	280.0	281.2	282.1	283.5	284.7	287.3	291.0	294.7
32.5°	271.4	271.1	269.5	269.2	269.5	271.1	271.4	273.3	275.9	279.4	282.6
35°	255.6	254.2	253.7	253.9	253.7	254.2	255.6	256.5	258.8	262.1	265.1
37.5°	240.5	238.7	237.8	237.0	237.8	238.7	240.5	240.7	243.0	245.2	249.3
40°	229.7	227.9	227.4	226.9	227.4	227.9	229.7	229.5	232.0	233.7	237.4
42.5°	217.6	216.9	216.6	215.7	216.6	216.9	217.6	218.9	220.3	222.7	225.5
45°	201.1	200.8	199.4	199.9	199.4	200.8	201.1	201.8	204.3	206.0	208.5
47.5°	183.6	182.6	181.6	182.3	181.6	182.6	183.6	184.6	186.3	188.3	191.7
50°	171.7	171.2	169.1	169.6	169.1	171.2	171.7	172.6	173.8	176.4	179.4
52.5°	159.8	158.0	157.2	156.9	157.2	158.0	159.8	160.7	162.1	165.0	167.3
55°	140.0	137.9	137.0	136.5	137.0	137.9	140.0	141.7	143.5	146.8	149.1
57.5°	120.6	120.1	119.3	119.8	119.3	120.1	120.6	123.3	125.2	127.7	130.6
60°	109.3	109.3	109.3	109.0	109.3	109.3	109.3	111.6	113.2	115.8	118.8
62.5°	100.5	99.9	99.8	100.1	99.8	99.9	100.5	101.5	103.2	104.8	107.5
65°	87.1	86.9	86.0	85.7	86.0	86.9	87.1	87.8	89.2	90.4	92.3
67.5°	74.5	73.7	73.4	73.1	73.4	73.7	74.5	75.1	76.0	77.5	78.5
70°	65.0	64.5	63.1	63.4	63.1	64.5	65.0	66.2	67.1	69.0	69.9
72.5°	54.8	54.3	54.0	53.7	54.0	54.3	54.8	55.9	56.8	58.9	60.4
75°	43.3	43.1	42.9	43.8	42.9	43.1	43.3	43.6	43.8	44.5	45.2
77.5°	34.7	34.7	34.9	34.5	34.9	34.7	34.7	34.7	34.7	35.1	35.2
80°	29.1	29.1	28.9	28.9	28.9	29.1	29.1	29.1	29.1	29.1	28.9
82.5°	23.3	23.5	23.7	23.3	23.7	23.5	23.3	23.7	23.9	23.5	23.7
85°	15.4	15.1	15.6	15.4	15.6	15.1	15.4	15.4	14.9	15.4	15.1
87.5°	8.9	8.6	8.6	8.8	8.6	8.6	8.9	8.5	8.5	8.4	8.2
90°	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.7	9.4	9.1
92.5°	14.6	14.5	14.4	14.3	14.4	14.5	14.6	14.7	14.6	14.3	14.1
95°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.4	27.1	26.8
97.5°	42.5	42.5	42.4	42.4	42.4	42.5	42.5	42.5	42.4	42.0	41.6
100°	53.2	53.4	53.6	53.7	53.6	53.4	53.2	53.1	52.9	52.7	52.4
102.5°	65.4	65.4	65.3	65.3	65.3	65.4	65.4	65.4	65.3	65.1	64.9
105°	83.6	83.8	84.0	84.1	84.0	83.8	83.6	83.5	83.4	83.4	83.4
107.5°	104.0	103.9	103.8	103.7	103.8	103.9	104.0	104.1	104.0	103.7	103.5
110°	117.4	117.3	117.1	117.0	117.1	117.3	117.4	117.6	117.5	117.2	116.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	131.2	131.2	131.1	131.1	131.1	131.2	131.2	131.2	131.1	130.7	130.3
115°	150.8	150.7	150.6	150.5	150.6	150.7	150.8	150.9	150.9	150.8	150.7
117.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.3	171.3	171.3
120°	184.6	184.4	184.3	184.1	184.3	184.4	184.6	184.7	184.9	184.9	185.0
122.5°	198.1	197.8	197.6	197.4	197.6	197.8	198.1	198.3	198.5	198.7	198.9
125°	218.3	218.0	217.6	217.3	217.6	218.0	218.3	218.6	218.9	219.2	219.5
127.5°	238.3	237.9	237.6	237.2	237.6	237.9	238.3	238.6	239.0	239.5	239.9
130°	251.9	251.3	250.8	250.2	250.8	251.3	251.9	252.4	252.8	253.1	253.5
132.5°	265.0	264.6	264.2	263.8	264.2	264.6	265.0	265.5	265.9	266.2	266.6
135°	285.3	285.1	285.0	284.8	285.0	285.1	285.3	285.5	285.7	286.0	286.3
137.5°	304.3	304.0	303.7	303.4	303.7	304.0	304.3	304.6	304.9	305.3	305.6
140°	317.2	316.7	316.1	315.6	316.1	316.7	317.2	317.8	318.1	318.2	318.2
142.5°	329.3	328.9	328.4	328.0	328.4	328.9	329.3	329.7	330.0	330.0	330.1
145°	346.9	346.6	346.3	346.0	346.3	346.6	346.9	347.2	347.4	347.5	347.6
147.5°	363.4	362.9	362.4	361.9	362.4	362.9	363.4	363.8	364.1	364.1	364.1
150°	373.5	373.1	372.6	372.1	372.6	373.1	373.5	374.0	374.2	374.2	374.2
152.5°	383.2	382.8	382.4	382.0	382.4	382.8	383.2	383.6	383.8	383.7	383.5
155°	397.1	396.5	396.0	395.4	396.0	396.5	397.1	397.6	397.8	397.4	397.1
157.5°	409.0	408.6	408.1	407.7	408.1	408.6	409.0	409.4	409.5	409.2	408.8
160°	416.5	416.2	415.9	415.6	415.9	416.2	416.5	416.8	416.8	416.4	416.0
162.5°	423.0	422.5	422.0	421.5	422.0	422.5	423.0	423.5	423.6	423.2	422.8
165°	431.7	431.2	430.6	430.1	430.6	431.2	431.7	432.3	432.3	431.8	431.4
167.5°	438.8	438.3	437.8	437.4	437.8	438.3	438.8	439.3	439.3	438.8	438.3
170°	442.7	442.1	441.6	441.0	441.6	442.1	442.7	443.2	443.2	442.7	442.1
172.5°	445.5	445.0	444.4	443.9	444.4	445.0	445.5	446.1	446.1	445.6	445.1
175°	448.7	448.1	447.6	447.0	447.6	448.1	448.7	449.2	449.3	448.8	448.3
177.5°	450.1	449.6	449.2	448.7	449.2	449.6	450.1	450.5	450.5	450.1	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	519.5	522.1	524.7	527.1	530.8	532.5	534.9	535.9	538.6	542.7	546.1
5°	487.9	491.6	496.5	500.4	506.7	511.6	517.0	522.1	528.2	536.8	544.5
7.5°	461.1	464.7	470.6	478.0	484.9	491.9	499.2	506.2	514.8	527.2	539.4
10°	443.4	447.8	454.8	462.7	471.3	478.1	486.7	495.5	506.3	520.5	535.2
12.5°	428.1	431.4	439.5	447.0	456.8	465.4	473.8	484.2	496.4	511.5	529.2
15°	403.8	408.4	416.3	424.7	435.0	444.1	455.0	467.6	479.5	498.1	519.5
17.5°	379.3	386.4	394.7	404.1	411.7	424.3	436.1	449.0	463.7	483.4	507.0
20°	363.7	369.3	377.0	390.7	400.7	410.3	421.2	437.3	450.8	473.2	497.6
22.5°	350.4	354.5	363.2	374.5	386.2	397.2	408.4	423.7	440.4	461.6	488.1
25°	330.8	337.4	343.9	352.0	364.6	377.9	390.0	403.1	420.8	443.4	472.0
27.5°	311.7	317.6	324.0	334.0	343.6	356.0	368.7	383.6	402.6	426.5	455.6
30°	299.4	303.8	309.9	322.7	331.3	342.0	356.9	370.2	387.9	413.3	444.1
32.5°	286.7	292.4	299.1	308.9	319.6	329.7	343.3	357.7	375.8	400.8	432.3
35°	268.6	275.4	282.1	289.4	300.1	310.6	322.0	337.8	356.2	380.5	411.4
37.5°	252.0	257.4	262.9	271.9	282.0	292.0	302.7	318.3	335.6	361.8	390.2
40°	241.4	246.3	250.5	259.8	269.6	280.3	290.8	304.5	323.1	347.6	375.1
42.5°	229.8	234.3	240.0	247.7	258.2	267.2	277.7	290.7	308.2	333.1	357.2
45°	212.5	217.6	222.5	229.7	240.2	249.1	258.4	270.7	288.7	309.2	330.6
47.5°	194.4	199.6	205.2	212.2	221.3	230.3	239.6	250.5	266.9	287.0	301.5
50°	182.9	187.1	192.7	199.7	208.1	217.6	226.0	237.9	253.5	269.3	281.9
52.5°	171.0	174.8	181.1	188.5	196.3	204.6	213.5	223.7	237.8	252.7	262.7
55°	152.4	157.0	162.4	169.6	177.3	184.3	192.9	203.4	214.6	225.8	232.5
57.5°	135.0	138.9	143.4	150.8	157.5	165.8	173.6	181.7	192.1	200.5	204.9
60°	122.3	125.8	131.6	138.2	144.4	151.7	160.5	168.7	176.6	183.4	186.8
62.5°	110.4	114.4	119.5	125.5	132.3	139.2	146.9	153.8	160.8	166.6	169.0
65°	94.8	98.1	101.8	107.4	113.0	120.0	126.0	133.0	138.2	141.4	143.5
67.5°	80.7	82.8	85.6	89.4	94.9	101.0	106.8	112.3	116.6	118.8	120.7
70°	71.5	72.9	75.0	78.7	82.9	88.3	94.4	98.3	102.0	103.9	105.8
72.5°	62.4	64.2	66.1	69.1	72.5	76.4	80.8	85.6	87.7	89.9	91.0
75°	47.3	49.9	52.4	54.3	56.6	59.6	63.6	66.6	67.8	69.7	69.9
77.5°	35.7	36.3	38.1	40.4	42.4	44.6	47.1	49.8	50.4	51.3	52.0
80°	29.4	29.4	29.4	30.8	33.1	34.7	37.0	38.4	39.4	39.6	39.8
82.5°	23.6	23.6	23.4	23.7	24.5	25.4	27.5	29.1	29.9	29.7	29.2
85°	15.4	14.9	14.9	14.7	14.9	14.4	14.2	15.1	16.5	16.5	16.1
87.5°	8.1	7.8	7.8	7.4	7.0	6.7	5.9	5.9	5.8	6.4	6.0
90°	8.8	8.5	7.5	6.4	5.4	4.4	3.5	2.7	1.9	1.1	0.4
92.5°	13.8	13.6	13.0	12.4	11.8	11.2	10.7	10.2	9.6	9.1	8.6
95°	26.5	26.2	25.5	24.9	24.3	23.6	23.0	22.5	21.9	21.4	20.9
97.5°	41.3	40.9	40.5	40.0	39.6	39.1	38.7	38.3	37.9	37.4	37.0
100°	52.2	51.9	51.6	51.2	50.8	50.4	49.9	49.5	49.0	48.5	48.1
102.5°	64.6	64.4	63.9	63.4	62.8	62.3	61.9	61.6	61.3	61.1	60.8
105°	83.4	83.4	82.7	82.0	81.3	80.6	80.1	80.0	79.8	79.7	79.5
107.5°	103.2	103.0	102.7	102.4	102.1	101.8	101.7	101.6	101.5	101.4	101.3
110°	116.6	116.3	116.1	116.0	115.8	115.6	115.5	115.3	115.2	115.0	114.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	129.9	129.6	129.5	129.5	129.5	129.4	129.4	129.3	129.2	129.1	129.0
115°	150.6	150.5	150.7	150.9	151.0	151.2	151.1	150.9	150.7	150.4	150.2
117.5°	171.3	171.3	171.5	171.7	171.9	172.1	172.2	172.0	171.9	171.7	171.5
120°	185.1	185.2	185.6	186.0	186.4	186.7	186.7	186.2	185.8	185.3	184.8
122.5°	199.1	199.3	199.5	199.7	199.9	200.1	200.1	199.7	199.4	199.0	198.7
125°	219.8	220.2	220.3	220.5	220.6	220.8	220.8	220.5	220.3	220.0	219.8
127.5°	240.4	240.8	241.0	241.1	241.3	241.5	241.3	240.8	240.3	239.8	239.3
130°	253.8	254.1	254.3	254.6	254.8	255.0	254.8	254.2	253.6	252.9	252.3
132.5°	267.0	267.4	267.5	267.7	267.9	268.1	267.8	267.2	266.6	266.0	265.3
135°	286.6	287.0	287.0	287.1	287.2	287.3	287.1	286.6	286.1	285.7	285.2
137.5°	305.9	306.2	306.0	305.8	305.6	305.4	305.1	304.7	304.3	304.0	303.6
140°	318.3	318.4	318.3	318.2	318.2	318.1	317.9	317.5	317.1	316.7	316.3
142.5°	330.2	330.3	330.1	330.0	329.9	329.7	329.4	329.1	328.7	328.3	327.9
145°	347.7	347.7	347.5	347.3	347.0	346.8	346.6	346.4	346.3	346.1	346.0
147.5°	364.1	364.1	363.8	363.6	363.4	363.2	362.9	362.7	362.4	362.1	361.8
150°	374.2	374.2	374.1	373.9	373.8	373.6	373.5	373.3	373.1	373.0	372.8
152.5°	383.4	383.3	383.2	383.1	383.0	382.9	382.8	382.5	382.3	382.1	381.9
155°	396.8	396.5	396.4	396.3	396.3	396.2	396.2	396.2	396.2	396.2	396.2
157.5°	408.5	408.2	408.1	408.0	408.0	407.9	407.9	408.0	408.1	408.2	408.3
160°	415.6	415.2	415.2	415.2	415.2	415.2	415.3	415.5	415.6	415.8	415.9
162.5°	422.4	422.0	422.0	421.9	421.8	421.8	421.8	422.1	422.3	422.5	422.7
165°	430.9	430.4	430.4	430.4	430.4	430.4	430.5	430.8	431.0	431.3	431.5
167.5°	437.8	437.4	437.3	437.2	437.2	437.1	437.2	437.5	437.9	438.2	438.5
170°	441.6	441.0	441.0	441.0	441.0	441.0	441.2	441.5	441.8	442.1	442.4
172.5°	444.6	444.1	444.1	444.1	444.1	444.1	444.3	444.6	444.9	445.2	445.6
175°	447.9	447.4	447.4	447.4	447.4	447.4	447.6	447.9	448.2	448.5	448.8
177.5°	449.4	449.0	449.0	449.0	449.0	449.0	449.1	449.4	449.6	449.9	450.1
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	547.2	549.3	551.9	555.8	558.8	561.4	561.9	562.7	564.6	567.7	570.1
5°	550.8	556.1	564.7	573.1	582.2	589.7	596.7	601.6	606.2	616.0	623.9
7.5°	549.6	561.6	575.1	590.1	605.4	620.1	633.8	646.1	658.3	672.6	688.8
10°	548.9	562.9	581.1	600.4	621.6	642.3	662.4	678.0	696.1	712.5	733.2
12.5°	545.4	565.5	587.2	611.9	638.0	661.9	688.3	709.8	730.6	754.2	778.3
15°	540.7	565.2	592.7	625.5	665.2	694.0	721.1	758.6	784.2	809.8	844.3
17.5°	532.3	562.2	596.5	639.2	672.2	711.1	751.7	781.4	815.9	852.0	883.2
20°	525.6	560.3	598.8	640.7	682.9	725.0	764.4	799.8	835.5	877.2	902.8
22.5°	518.9	553.2	593.2	637.7	683.0	727.5	772.0	813.6	853.7	895.8	928.5
25°	504.6	545.4	588.7	634.2	678.9	727.8	780.9	827.3	876.9	920.3	951.3
27.5°	490.2	527.6	570.7	616.8	666.5	724.3	786.8	839.5	889.2	920.3	930.0
30°	477.1	516.7	556.4	603.2	657.0	721.5	787.9	848.3	889.0	902.6	892.5
32.5°	463.9	499.8	539.0	587.0	644.1	714.6	789.4	843.1	867.6	857.3	816.5
35°	440.6	472.9	510.9	558.9	624.6	710.8	783.3	819.6	813.6	755.3	678.4
37.5°	415.6	442.0	477.1	527.3	604.4	695.7	756.8	762.2	709.7	620.3	531.5
40°	395.8	419.6	455.7	508.1	588.7	680.8	730.2	708.5	627.2	527.7	453.6
42.5°	376.6	396.7	431.5	488.0	573.8	660.4	690.5	643.3	549.5	455.4	388.0
45°	344.1	363.0	397.9	455.9	543.3	621.6	617.6	535.6	441.7	366.0	310.1
47.5°	313.3	329.8	362.6	421.8	507.5	563.3	526.3	439.0	359.4	298.6	258.7
50°	291.5	307.8	340.4	398.9	478.8	519.5	466.7	382.6	309.6	259.3	227.6
52.5°	270.6	286.5	316.3	373.3	444.1	468.5	411.7	333.7	272.9	229.5	202.3
55°	241.4	253.5	280.3	334.8	387.7	393.3	335.7	270.5	220.4	190.1	171.5
57.5°	211.6	222.0	248.5	291.9	329.0	326.1	271.6	215.1	181.4	158.9	145.4
60°	192.2	202.5	225.8	263.0	291.0	281.2	231.1	185.7	156.8	140.3	129.5
62.5°	174.1	182.1	204.0	231.2	251.3	240.2	197.6	160.0	137.0	123.1	114.6
65°	147.9	154.5	171.9	186.2	197.3	186.6	151.2	125.1	108.6	98.8	93.0
67.5°	123.1	127.2	138.2	143.4	151.3	139.5	113.7	96.2	86.8	78.6	74.5
70°	107.4	110.4	116.3	120.5	122.5	110.4	91.3	78.5	70.6	64.8	62.2
72.5°	91.7	94.4	95.6	99.0	97.9	86.6	73.4	63.2	57.5	53.6	50.3
75°	70.1	71.3	70.1	68.7	65.7	57.8	48.7	43.6	39.4	37.5	36.3
77.5°	51.1	50.7	49.2	47.0	41.8	36.8	31.9	30.2	28.4	27.4	27.0
80°	39.4	38.4	37.0	33.5	29.1	25.6	24.5	23.3	22.6	21.4	21.2
82.5°	29.3	28.7	26.4	23.5	20.4	18.7	17.8	17.3	16.6	16.0	16.0
85°	15.6	14.9	12.3	10.7	10.3	9.8	9.6	9.6	8.6	8.4	8.4
87.5°	5.3	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	5.4	6.4	7.5	8.5	8.8	9.1
92.5°	9.1	9.6	10.2	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.1
95°	21.4	21.9	22.5	23.0	23.6	24.3	24.9	25.5	26.2	26.5	26.8
97.5°	37.4	37.9	38.3	38.7	39.1	39.6	40.0	40.5	40.9	41.3	41.6
100°	48.5	49.0	49.5	49.9	50.4	50.8	51.2	51.6	51.9	52.2	52.4
102.5°	61.1	61.3	61.6	61.9	62.3	62.8	63.4	63.9	64.4	64.6	64.9
105°	79.7	79.8	80.0	80.1	80.6	81.3	82.0	82.7	83.4	83.4	83.4
107.5°	101.4	101.5	101.6	101.7	101.8	102.1	102.4	102.7	103.0	103.2	103.5
110°	115.0	115.2	115.3	115.5	115.6	115.8	116.0	116.1	116.3	116.6	116.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	129.1	129.2	129.3	129.4	129.4	129.5	129.5	129.5	129.6	129.9	130.3
115°	150.4	150.7	150.9	151.1	151.2	151.0	150.9	150.7	150.5	150.6	150.7
117.5°	171.7	171.9	172.0	172.2	172.1	171.9	171.7	171.5	171.3	171.3	171.3
120°	185.3	185.8	186.2	186.7	186.7	186.4	186.0	185.6	185.2	185.1	185.0
122.5°	199.0	199.4	199.7	200.1	200.1	199.9	199.7	199.5	199.3	199.1	198.9
125°	220.0	220.3	220.5	220.8	220.8	220.6	220.5	220.3	220.2	219.8	219.5
127.5°	239.8	240.3	240.8	241.3	241.5	241.3	241.1	241.0	240.8	240.4	239.9
130°	252.9	253.6	254.2	254.8	255.0	254.8	254.6	254.3	254.1	253.8	253.5
132.5°	266.0	266.6	267.2	267.8	268.1	267.9	267.7	267.5	267.4	267.0	266.6
135°	285.7	286.1	286.6	287.1	287.3	287.2	287.1	287.0	287.0	286.6	286.3
137.5°	304.0	304.3	304.7	305.1	305.4	305.6	305.8	306.0	306.2	305.9	305.6
140°	316.7	317.1	317.5	317.9	318.1	318.2	318.2	318.3	318.4	318.3	318.2
142.5°	328.3	328.7	329.1	329.4	329.7	329.9	330.0	330.1	330.3	330.2	330.1
145°	346.1	346.3	346.4	346.6	346.8	347.0	347.3	347.5	347.7	347.7	347.6
147.5°	362.1	362.4	362.7	362.9	363.2	363.4	363.6	363.8	364.1	364.1	364.1
150°	373.0	373.1	373.3	373.5	373.6	373.8	373.9	374.1	374.2	374.2	374.2
152.5°	382.1	382.3	382.5	382.8	382.9	383.0	383.1	383.2	383.3	383.4	383.5
155°	396.2	396.2	396.2	396.2	396.2	396.3	396.3	396.4	396.5	396.8	397.1
157.5°	408.2	408.1	408.0	407.9	407.9	408.0	408.0	408.1	408.2	408.5	408.8
160°	415.8	415.6	415.5	415.3	415.2	415.2	415.2	415.2	415.2	415.6	416.0
162.5°	422.5	422.3	422.1	421.8	421.8	421.8	421.9	422.0	422.0	422.4	422.8
165°	431.3	431.0	430.8	430.5	430.4	430.4	430.4	430.4	430.4	430.9	431.4
167.5°	438.2	437.9	437.5	437.2	437.1	437.2	437.2	437.3	437.4	437.8	438.3
170°	442.1	441.8	441.5	441.2	441.0	441.0	441.0	441.0	441.0	441.6	442.1
172.5°	445.2	444.9	444.6	444.3	444.1	444.1	444.1	444.1	444.1	444.6	445.1
175°	448.5	448.2	447.9	447.6	447.4	447.4	447.4	447.4	447.4	447.9	448.3
177.5°	449.9	449.6	449.4	449.1	449.0	449.0	449.0	449.0	449.0	449.4	449.8
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	574.1	574.1	574.8	577.6	578.0	580.4	579.7
5°	630.9	635.3	637.0	644.0	648.1	650.0	646.3
7.5°	700.4	712.9	718.8	726.2	732.6	734.6	729.5
10°	751.1	764.2	775.1	781.9	788.2	792.4	797.7
12.5°	800.1	816.2	826.6	836.1	842.6	847.9	848.8
15°	853.4	877.6	896.0	909.6	916.3	919.8	918.4
17.5°	907.1	929.6	942.7	956.5	965.8	966.3	966.6
20°	937.5	959.4	974.6	984.8	995.3	994.8	997.2
22.5°	957.8	975.1	986.7	994.1	997.7	995.9	996.4
25°	967.3	972.5	970.4	958.5	955.4	944.5	946.4
27.5°	918.3	894.1	869.0	836.8	811.3	791.0	792.0
30°	851.8	808.9	760.0	719.0	682.2	671.9	650.0
32.5°	758.8	694.5	637.2	598.9	567.4	558.8	539.7
35°	601.1	538.6	479.7	444.3	430.3	410.7	410.5
37.5°	467.2	412.2	381.1	354.5	340.6	328.7	327.6
40°	393.0	350.2	326.6	307.5	293.8	284.9	282.8
42.5°	341.2	306.6	284.5	272.7	262.1	257.5	254.1
45°	278.6	255.3	240.0	229.3	224.4	220.9	219.0
47.5°	233.1	217.5	207.0	199.8	195.9	192.2	193.2
50°	208.3	195.5	187.8	181.0	178.0	175.4	175.7
52.5°	188.3	176.8	170.6	165.7	162.0	160.1	159.3
55°	159.8	152.6	146.3	142.8	140.7	138.2	137.5
57.5°	136.3	130.7	125.6	121.7	121.1	118.7	119.0
60°	120.7	116.0	111.8	109.7	108.1	106.0	106.7
62.5°	107.8	103.9	100.1	98.4	96.7	95.2	95.5
65°	88.3	84.6	82.2	81.3	80.6	79.9	79.2
67.5°	70.4	68.1	66.6	64.6	63.2	63.0	62.3
70°	59.2	56.1	53.6	51.0	50.3	50.1	50.3
72.5°	47.4	45.5	44.8	43.6	43.4	42.8	43.2
75°	35.6	34.9	34.5	33.5	33.5	33.5	33.5
77.5°	26.3	25.9	25.6	25.4	25.2	24.8	24.8
80°	20.5	20.3	19.8	19.8	19.6	19.8	19.6
82.5°	15.5	15.4	15.0	15.0	14.7	14.6	14.7
85°	7.9	7.7	8.2	7.7	7.9	7.5	7.9
87.5°	4.1	4.2	4.0	4.1	3.9	4.3	4.0
90°	9.4	9.7	10.0	10.1	10.3	10.4	10.6
92.5°	14.3	14.6	14.7	14.6	14.5	14.4	14.3
95°	27.1	27.4	27.6	27.6	27.6	27.6	27.6
97.5°	42.0	42.4	42.5	42.5	42.5	42.4	42.4
100°	52.7	52.9	53.1	53.2	53.4	53.6	53.7
102.5°	65.1	65.3	65.4	65.4	65.4	65.3	65.3
105°	83.4	83.4	83.5	83.6	83.8	84.0	84.1
107.5°	103.7	104.0	104.1	104.0	103.9	103.8	103.7
110°	117.2	117.5	117.6	117.4	117.3	117.1	117.0



TEST NUMBER: P332241

CATALOG NUMBER: S123RDIP-S340D365U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.7	131.1	131.2	131.2	131.2	131.1	131.1
115°	150.8	150.9	150.9	150.8	150.7	150.6	150.5
117.5°	171.3	171.3	171.1	170.9	170.7	170.5	170.3
120°	184.9	184.9	184.7	184.6	184.4	184.3	184.1
122.5°	198.7	198.5	198.3	198.1	197.8	197.6	197.4
125°	219.2	218.9	218.6	218.3	218.0	217.6	217.3
127.5°	239.5	239.0	238.6	238.3	237.9	237.6	237.2
130°	253.1	252.8	252.4	251.9	251.3	250.8	250.2
132.5°	266.2	265.9	265.5	265.0	264.6	264.2	263.8
135°	286.0	285.7	285.5	285.3	285.1	285.0	284.8
137.5°	305.3	304.9	304.6	304.3	304.0	303.7	303.4
140°	318.2	318.1	317.8	317.2	316.7	316.1	315.6
142.5°	330.0	330.0	329.7	329.3	328.9	328.4	328.0
145°	347.5	347.4	347.2	346.9	346.6	346.3	346.0
147.5°	364.1	364.1	363.8	363.4	362.9	362.4	361.9
150°	374.2	374.2	374.0	373.5	373.1	372.6	372.1
152.5°	383.7	383.8	383.6	383.2	382.8	382.4	382.0
155°	397.4	397.8	397.6	397.1	396.5	396.0	395.4
157.5°	409.2	409.5	409.4	409.0	408.6	408.1	407.7
160°	416.4	416.8	416.8	416.5	416.2	415.9	415.6
162.5°	423.2	423.6	423.5	423.0	422.5	422.0	421.5
165°	431.8	432.3	432.3	431.7	431.2	430.6	430.1
167.5°	438.8	439.3	439.3	438.8	438.3	437.8	437.4
170°	442.7	443.2	443.2	442.7	442.1	441.6	441.0
172.5°	445.6	446.1	446.1	445.5	445.0	444.4	443.9
175°	448.8	449.3	449.2	448.7	448.1	447.6	447.0
177.5°	450.1	450.5	450.5	450.1	449.6	449.2	448.7
180°	449.9	449.9	449.9	449.9	449.9	449.9	449.9

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