

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: P332252

Luminaire Tested: **S123RDIP-S340D805U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332252
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-S340D805U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4567.0 lumens
Efficiency: N/A
Efficacy: 146.4 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: Semi-Indirect

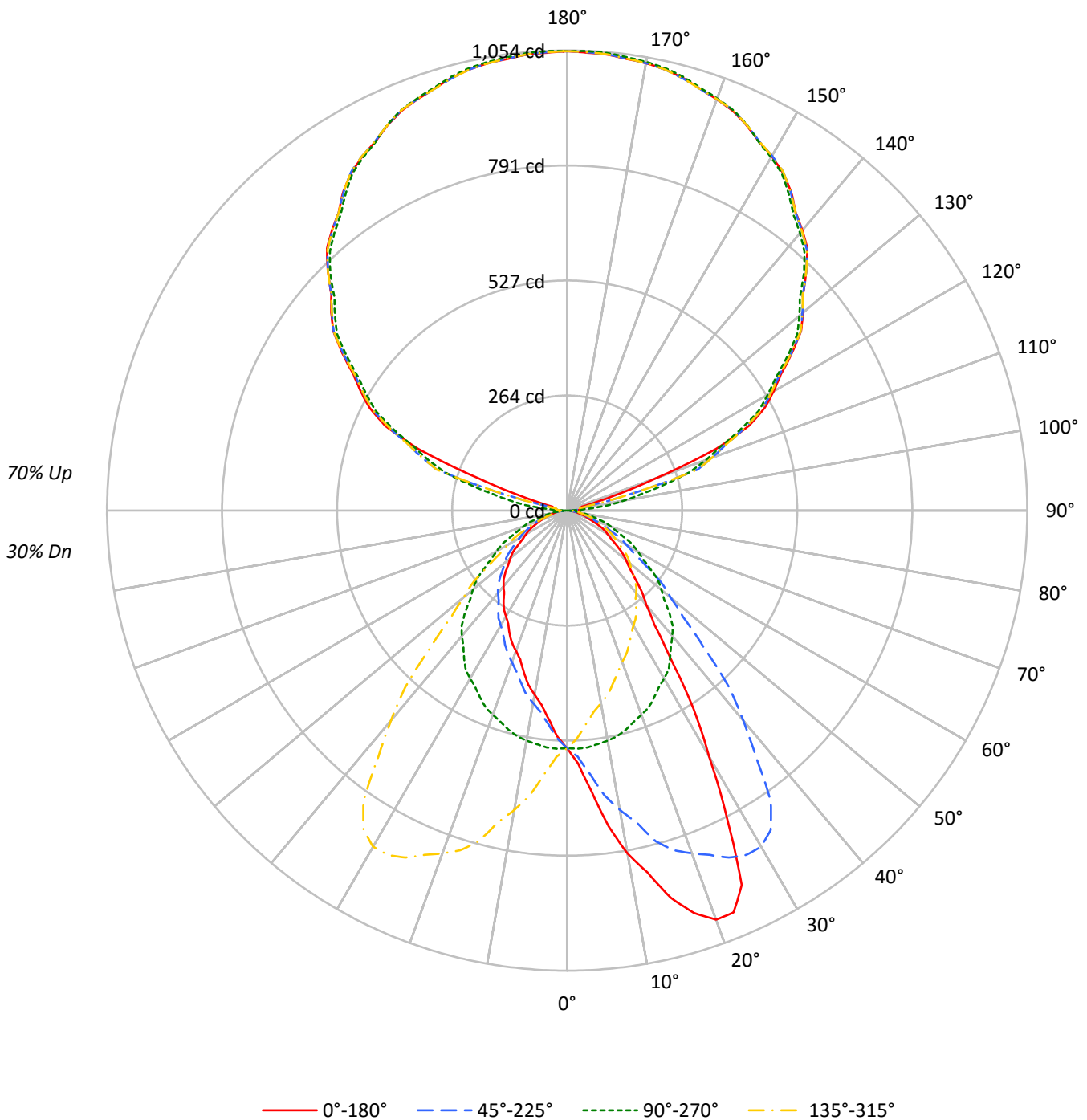
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30					30															
1	94	90	86	83	84	80	77	75	64	62	60	48	47	46	34	33	32	26					26															
2	85	79	73	68	76	71	66	62	56	53	50	43	40	39	30	29	28	22					22															
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19					19															
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17					17															
5	66	55	47	41	59	50	43	38	40	35	31	30	27	25	22	20	18	15					15															
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13					13															
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12					12															
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11					11															
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10					10															
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9					9															

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: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.2
10°-20°	167.2	3.7
20°-30°	262.7	5.8
30°-40°	274.1	6.0
40°-50°	234.5	5.1
50°-60°	178.8	3.9
60°-70°	114.6	2.5
70°-80°	55.1	1.2
80°-90°	17.5	0.4
90°-100°	38.3	0.8
100°-110°	182.3	4.0
110°-120°	438.0	9.6
120°-130°	557.7	12.2
130°-140°	595.9	13.0
140°-150°	557.2	12.2
150°-160°	449.5	9.8
160°-170°	290.1	6.4
170°-180°	100.0	2.2
0°-30°	483.4	10.6
0°-40°	757.5	16.6
0°-60°	1170.8	25.6
0°-90°	1358.0	29.7
90°-120°	658.6	14.4
90°-150°	2369.4	51.9
90°-180°	3209.0	70.3
0°-180°	4567.0	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	10
90°	24	1	24	1	24	11
95°	30	48	30	48	30	25
105°	34	233	34	233	34	79
115°	460	437	460	437	460	425
125°	629	616	629	616	629	561
135°	775	767	775	767	775	597
145°	894	885	894	885	894	558
155°	973	975	973	975	973	449
165°	1026	1028	1026	1028	1026	290
175°	1048	1052	1048	1052	1048	100
180°	1052	1052	1052	1052	1052	



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CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	6.6	6.9	6.4	6.5	6.5	6.5	6.4	6.3	6.5	6.2	5.9
90°	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2	19.5	18.8	16.5
92.5°	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2	21.1	20.0	18.3
95°	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7	25.5	24.2	22.3
97.5°	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0	26.6	25.2	37.7
100°	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6	27.2	25.8	52.9
102.5°	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8	47.1	51.4	81.0
105°	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7	140.5	171.2	186.8
107.5°	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7	291.3	313.8	311.3
110°	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1	346.9	352.6	350.7



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2	392.1	392.0	390.1
115°	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2	450.5	448.8	447.2
117.5°	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6	505.2	503.8	503.0
120°	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2	540.8	539.4	538.9
122.5°	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0	576.1	575.1	574.4
125°	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1	625.8	625.4	624.7
127.5°	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3	674.8	674.2	673.4
130°	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0	704.3	703.6	702.9
132.5°	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1	732.5	731.8	731.2
135°	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8	775.3	774.8	774.1
137.5°	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8	813.0	812.1	811.7
140°	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9	837.2	836.5	836.0
142.5°	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8	860.2	859.7	859.1
145°	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7	892.4	892.0	891.7
147.5°	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3	921.0	920.6	920.3
150°	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8	938.5	938.2	937.8
152.5°	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4	953.8	953.2	953.0
155°	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9	975.0	974.1	973.9
157.5°	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5	993.5	992.4	992.6
160°	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1	1004.1	1003.0	1003.2
162.5°	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8	1013.6	1012.4	1012.6
165°	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7	1026.3	1024.9	1025.1
167.5°	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9	1034.9
170°	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6	1040.6
172.5°	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1	1045.7	1044.3	1044.2
175°	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6	1050.4	1049.2	1049.0
177.5°	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3	1052.2	1051.0	1050.9
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	5.8	5.2	5.1	4.7	4.9	4.8	5.5	6.1	6.7	6.3	6.6
90°	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8	2.5	4.3	6.0
92.5°	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5	14.1	13.6	13.1
95°	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7	40.6	33.4	26.3
97.5°	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8	92.7	89.5	86.3
100°	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1	135.6	139.1	142.5
102.5°	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4	175.9	178.4	180.9
105°	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0	234.9	236.8	238.7
107.5°	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8	297.4	298.9	300.4
110°	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7	339.1	340.5	341.9



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8	379.0	380.3	381.5
115°	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0	438.1	439.1	440.2
117.5°	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4	495.7	497.0	498.3
120°	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1	531.6	533.2	534.7
122.5°	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3	567.6	568.9	570.2
125°	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1	617.4	618.8	620.2
127.5°	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2	665.6	667.0	668.4
130°	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2	695.6	697.0	698.4
132.5°	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0	724.4	725.8	727.2
135°	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9	768.0	769.0	770.1
137.5°	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5	805.8	807.1	808.4
140°	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5	830.5	831.6	832.6
142.5°	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6	853.7	854.7	855.8
145°	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0	886.2	887.4	888.6
147.5°	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5	916.3	917.1	917.9
150°	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2	934.8	935.3	935.8
152.5°	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1	951.4	951.6	951.9
155°	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9	974.6	974.2	973.9
157.5°	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3	993.3	993.3	993.2
160°	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6	1004.4	1004.3	1004.1
162.5°	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2	1014.8	1014.3	1013.9
165°	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1	1027.5	1027.0	1026.5
167.5°	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1	1037.4	1036.7	1036.0
170°	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7	1043.0	1042.3	1041.6
172.5°	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4	1046.6	1045.8	1044.9
175°	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3	1051.4	1050.6	1049.7
177.5°	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5	1052.9	1052.2	1051.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	6.8	7.7	8.4	9.0	9.6	9.9	10.2	10.4	10.7	10.8	10.9
90°	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2	20.8	21.5	22.1
92.5°	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2	23.3	24.5	25.1
95°	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7	27.9	29.1	29.7
97.5°	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0	29.3	30.7	31.5
100°	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6	30.0	31.4	32.1
102.5°	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8	38.5	34.2	32.2
105°	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7	79.0	48.2	33.0
107.5°	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7	246.2	223.6	200.7
110°	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1	335.4	329.7	314.4



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2	392.3	392.4	389.8
115°	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2	454.0	455.7	456.9
117.5°	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6	508.0	509.3	510.1
120°	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2	543.6	545.0	545.7
122.5°	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0	578.0	579.0	579.5
125°	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1	626.5	626.8	627.2
127.5°	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3	675.9	676.4	676.5
130°	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0	705.7	706.4	706.6
132.5°	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1	733.8	734.5	734.6
135°	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8	776.3	776.8	776.8
137.5°	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8	814.6	815.5	815.7
140°	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9	838.6	839.3	839.5
142.5°	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8	861.3	861.9	861.9
145°	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7	893.1	893.4	893.6
147.5°	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3	921.7	922.0	921.8
150°	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8	939.2	939.5	939.5
152.5°	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4	955.0	955.7	955.6
155°	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9	976.7	977.6	977.5
157.5°	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5	995.5	996.6	996.4
160°	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1	1006.2	1007.2	1007.1
162.5°	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8	1016.0	1017.1	1017.2
165°	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7	1029.1	1030.5	1030.6
167.5°	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5
170°	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1
172.5°	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1	1048.5	1049.9	1049.8
175°	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6	1052.8	1054.0	1053.9
177.5°	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3	1054.4	1055.5	1055.4
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	11.4	11.1	11.1	11.4	11.1	11.1	11.4	10.9	10.8	10.7	10.4
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2
92.5°	25.3	25.5	25.7	26.0	25.7	25.5	25.3	25.1	24.5	23.3	22.2
95°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.1	27.9	26.7
97.5°	31.7	31.9	32.0	32.2	32.0	31.9	31.7	31.5	30.7	29.3	28.0
100°	32.3	32.5	32.7	32.8	32.7	32.5	32.3	32.1	31.4	30.0	28.6
102.5°	32.5	32.8	33.1	33.5	33.1	32.8	32.5	32.2	34.2	38.5	42.8
105°	33.4	33.7	34.1	34.4	34.1	33.7	33.4	33.0	48.2	79.0	109.7
107.5°	177.6	154.4	131.2	108.0	131.2	154.4	177.6	200.7	223.6	246.2	268.7
110°	289.5	264.7	239.8	215.0	239.8	264.7	289.5	314.4	329.7	335.4	341.1



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.6	379.3	374.1	368.9	374.1	379.3	384.6	389.8	392.4	392.3	392.2
115°	457.6	458.3	459.0	459.7	459.0	458.3	457.6	456.9	455.7	454.0	452.2
117.5°	510.3	510.4	510.5	510.7	510.5	510.4	510.3	510.1	509.3	508.0	506.6
120°	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.7	545.0	543.6	542.2
122.5°	579.7	579.8	580.0	580.1	580.0	579.8	579.7	579.5	579.0	578.0	577.0
125°	627.5	627.9	628.2	628.6	628.2	627.9	627.5	627.2	626.8	626.5	626.1
127.5°	676.2	675.9	675.5	675.2	675.5	675.9	676.2	676.5	676.4	675.9	675.3
130°	706.2	705.9	705.5	705.2	705.5	705.9	706.2	706.6	706.4	705.7	705.0
132.5°	734.2	733.7	733.2	732.7	733.2	733.7	734.2	734.6	734.5	733.8	733.1
135°	776.3	775.8	775.3	774.8	775.3	775.8	776.3	776.8	776.8	776.3	775.8
137.5°	815.4	815.0	814.7	814.3	814.7	815.0	815.4	815.7	815.5	814.6	813.8
140°	839.1	838.8	838.4	838.1	838.4	838.8	839.1	839.5	839.3	838.6	837.9
142.5°	861.4	860.9	860.5	860.0	860.5	860.9	861.4	861.9	861.9	861.3	860.8
145°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.4	893.1	892.7
147.5°	921.0	920.2	919.4	918.6	919.4	920.2	921.0	921.8	922.0	921.7	921.3
150°	938.9	938.4	937.9	937.4	937.9	938.4	938.9	939.5	939.5	939.2	938.8
152.5°	954.8	954.0	953.2	952.4	953.2	954.0	954.8	955.6	955.7	955.0	954.4
155°	976.5	975.4	974.4	973.3	974.4	975.4	976.5	977.5	977.6	976.7	975.9
157.5°	995.1	993.7	992.4	991.0	992.4	993.7	995.1	996.4	996.6	995.5	994.5
160°	1005.9	1004.7	1003.5	1002.3	1003.5	1004.7	1005.9	1007.1	1007.2	1006.2	1005.1
162.5°	1016.1	1015.0	1014.0	1012.9	1014.0	1015.0	1016.1	1017.2	1017.1	1016.0	1014.8
165°	1029.4	1028.1	1026.9	1025.7	1026.9	1028.1	1029.4	1030.6	1030.5	1029.1	1027.7
167.5°	1039.1	1037.7	1036.3	1034.9	1036.3	1037.7	1039.1	1040.5	1040.5	1039.1	1037.7
170°	1044.7	1043.3	1042.0	1040.6	1042.0	1043.3	1044.7	1046.1	1046.1	1044.7	1043.3
172.5°	1048.3	1046.8	1045.2	1043.7	1045.2	1046.8	1048.3	1049.8	1049.9	1048.5	1047.1
175°	1052.6	1051.2	1049.8	1048.4	1049.8	1051.2	1052.6	1053.9	1054.0	1052.8	1051.6
177.5°	1054.0	1052.6	1051.2	1049.8	1051.2	1052.6	1054.0	1055.4	1055.5	1054.4	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	10.2	9.9	9.6	9.0	8.4	7.7	6.8	6.6	6.3	6.7	6.1
90°	19.5	18.8	16.5	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8
92.5°	21.1	20.0	18.3	16.6	14.9	13.2	12.6	13.1	13.6	14.1	14.5
95°	25.5	24.2	22.3	20.4	18.5	16.6	19.2	26.3	33.4	40.6	47.7
97.5°	26.6	25.2	37.7	50.2	62.7	75.2	83.1	86.3	89.5	92.7	95.8
100°	27.2	25.8	52.9	80.0	107.1	134.2	146.0	142.5	139.1	135.6	132.1
102.5°	47.1	51.4	81.0	110.6	140.3	169.9	183.4	180.9	178.4	175.9	173.4
105°	140.5	171.2	186.8	202.5	218.1	233.8	240.6	238.7	236.8	234.9	233.0
107.5°	291.3	313.8	311.3	308.9	306.4	303.9	301.9	300.4	298.9	297.4	295.8
110°	346.9	352.6	350.7	348.8	346.9	344.9	343.3	341.9	340.5	339.1	337.7



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	392.1	392.0	390.1	388.2	386.3	384.3	382.8	381.5	380.3	379.0	377.8
115°	450.5	448.8	447.2	445.6	444.1	442.5	441.2	440.2	439.1	438.1	437.0
117.5°	505.2	503.8	503.0	502.2	501.4	500.6	499.5	498.3	497.0	495.7	494.4
120°	540.8	539.4	538.9	538.4	537.9	537.4	536.3	534.7	533.2	531.6	530.1
122.5°	576.1	575.1	574.4	573.8	573.1	572.4	571.5	570.2	568.9	567.6	566.3
125°	625.8	625.4	624.7	624.0	623.4	622.7	621.6	620.2	618.8	617.4	616.1
127.5°	674.8	674.2	673.4	672.6	671.7	670.9	669.8	668.4	667.0	665.6	664.2
130°	704.3	703.6	702.9	702.2	701.5	700.8	699.8	698.4	697.0	695.6	694.2
132.5°	732.5	731.8	731.2	730.6	730.1	729.5	728.6	727.2	725.8	724.4	723.0
135°	775.3	774.8	774.1	773.4	772.7	772.0	771.1	770.1	769.0	768.0	766.9
137.5°	813.0	812.1	811.7	811.4	811.0	810.6	809.7	808.4	807.1	805.8	804.5
140°	837.2	836.5	836.0	835.5	835.0	834.4	833.7	832.6	831.6	830.5	829.5
142.5°	860.2	859.7	859.1	858.6	858.1	857.6	856.8	855.8	854.7	853.7	852.6
145°	892.4	892.0	891.7	891.3	891.0	890.6	889.9	888.6	887.4	886.2	885.0
147.5°	921.0	920.6	920.3	919.9	919.6	919.3	918.7	917.9	917.1	916.3	915.5
150°	938.5	938.2	937.8	937.5	937.1	936.8	936.3	935.8	935.3	934.8	934.2
152.5°	953.8	953.2	953.0	952.7	952.5	952.3	952.1	951.9	951.6	951.4	951.1
155°	975.0	974.1	973.9	973.8	973.6	973.4	973.5	973.9	974.2	974.6	974.9
157.5°	993.5	992.4	992.6	992.8	992.9	993.1	993.2	993.2	993.3	993.3	993.3
160°	1004.1	1003.0	1003.2	1003.4	1003.6	1003.7	1003.9	1004.1	1004.3	1004.4	1004.6
162.5°	1013.6	1012.4	1012.6	1012.8	1012.9	1013.1	1013.4	1013.9	1014.3	1014.8	1015.2
165°	1026.3	1024.9	1025.1	1025.3	1025.5	1025.6	1026.0	1026.5	1027.0	1027.5	1028.1
167.5°	1036.3	1034.9	1034.9	1034.9	1034.9	1034.9	1035.3	1036.0	1036.7	1037.4	1038.1
170°	1042.0	1040.6	1040.6	1040.6	1040.6	1040.6	1040.9	1041.6	1042.3	1043.0	1043.7
172.5°	1045.7	1044.3	1044.2	1044.0	1043.9	1043.8	1044.1	1044.9	1045.8	1046.6	1047.4
175°	1050.4	1049.2	1049.0	1048.8	1048.6	1048.5	1048.8	1049.7	1050.6	1051.4	1052.3
177.5°	1052.2	1051.0	1050.9	1050.8	1050.6	1050.5	1050.8	1051.5	1052.2	1052.9	1053.5
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	5.5	4.8	4.9	4.7	5.1	5.2	5.8	5.9	6.2	6.5	6.3
90°	2.5	4.3	6.0	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2
92.5°	14.1	13.6	13.1	12.6	13.2	14.9	16.6	18.3	20.0	21.1	22.2
95°	40.6	33.4	26.3	19.2	16.6	18.5	20.4	22.3	24.2	25.5	26.7
97.5°	92.7	89.5	86.3	83.1	75.2	62.7	50.2	37.7	25.2	26.6	28.0
100°	135.6	139.1	142.5	146.0	134.2	107.1	80.0	52.9	25.8	27.2	28.6
102.5°	175.9	178.4	180.9	183.4	169.9	140.3	110.6	81.0	51.4	47.1	42.8
105°	234.9	236.8	238.7	240.6	233.8	218.1	202.5	186.8	171.2	140.5	109.7
107.5°	297.4	298.9	300.4	301.9	303.9	306.4	308.9	311.3	313.8	291.3	268.7
110°	339.1	340.5	341.9	343.3	344.9	346.9	348.8	350.7	352.6	346.9	341.1



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	379.0	380.3	381.5	382.8	384.3	386.3	388.2	390.1	392.0	392.1	392.2
115°	438.1	439.1	440.2	441.2	442.5	444.1	445.6	447.2	448.8	450.5	452.2
117.5°	495.7	497.0	498.3	499.5	500.6	501.4	502.2	503.0	503.8	505.2	506.6
120°	531.6	533.2	534.7	536.3	537.4	537.9	538.4	538.9	539.4	540.8	542.2
122.5°	567.6	568.9	570.2	571.5	572.4	573.1	573.8	574.4	575.1	576.1	577.0
125°	617.4	618.8	620.2	621.6	622.7	623.4	624.0	624.7	625.4	625.8	626.1
127.5°	665.6	667.0	668.4	669.8	670.9	671.7	672.6	673.4	674.2	674.8	675.3
130°	695.6	697.0	698.4	699.8	700.8	701.5	702.2	702.9	703.6	704.3	705.0
132.5°	724.4	725.8	727.2	728.6	729.5	730.1	730.6	731.2	731.8	732.5	733.1
135°	768.0	769.0	770.1	771.1	772.0	772.7	773.4	774.1	774.8	775.3	775.8
137.5°	805.8	807.1	808.4	809.7	810.6	811.0	811.4	811.7	812.1	813.0	813.8
140°	830.5	831.6	832.6	833.7	834.4	835.0	835.5	836.0	836.5	837.2	837.9
142.5°	853.7	854.7	855.8	856.8	857.6	858.1	858.6	859.1	859.7	860.2	860.8
145°	886.2	887.4	888.6	889.9	890.6	891.0	891.3	891.7	892.0	892.4	892.7
147.5°	916.3	917.1	917.9	918.7	919.3	919.6	919.9	920.3	920.6	921.0	921.3
150°	934.8	935.3	935.8	936.3	936.8	937.1	937.5	937.8	938.2	938.5	938.8
152.5°	951.4	951.6	951.9	952.1	952.3	952.5	952.7	953.0	953.2	953.8	954.4
155°	974.6	974.2	973.9	973.5	973.4	973.6	973.8	973.9	974.1	975.0	975.9
157.5°	993.3	993.3	993.2	993.2	993.1	992.9	992.8	992.6	992.4	993.5	994.5
160°	1004.4	1004.3	1004.1	1003.9	1003.7	1003.6	1003.4	1003.2	1003.0	1004.1	1005.1
162.5°	1014.8	1014.3	1013.9	1013.4	1013.1	1012.9	1012.8	1012.6	1012.4	1013.6	1014.8
165°	1027.5	1027.0	1026.5	1026.0	1025.6	1025.5	1025.3	1025.1	1024.9	1026.3	1027.7
167.5°	1037.4	1036.7	1036.0	1035.3	1034.9	1034.9	1034.9	1034.9	1034.9	1036.3	1037.7
170°	1043.0	1042.3	1041.6	1040.9	1040.6	1040.6	1040.6	1040.6	1040.6	1042.0	1043.3
172.5°	1046.6	1045.8	1044.9	1044.1	1043.8	1043.9	1044.0	1044.2	1044.3	1045.7	1047.1
175°	1051.4	1050.6	1049.7	1048.8	1048.5	1048.6	1048.8	1049.0	1049.2	1050.4	1051.6
177.5°	1052.9	1052.2	1051.5	1050.8	1050.5	1050.6	1050.8	1050.9	1051.0	1052.2	1053.3
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

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°	6.4	6.5	6.5	6.5	6.4	6.9	6.6
90°	20.8	21.5	22.1	22.4	22.8	23.1	23.5
92.5°	23.3	24.5	25.1	25.3	25.5	25.7	26.0
95°	27.9	29.1	29.7	29.7	29.7	29.7	29.7
97.5°	29.3	30.7	31.5	31.7	31.9	32.0	32.2
100°	30.0	31.4	32.1	32.3	32.5	32.7	32.8
102.5°	38.5	34.2	32.2	32.5	32.8	33.1	33.5
105°	79.0	48.2	33.0	33.4	33.7	34.1	34.4
107.5°	246.2	223.6	200.7	177.6	154.4	131.2	108.0
110°	335.4	329.7	314.4	289.5	264.7	239.8	215.0



TEST NUMBER: P332252

CATALOG NUMBER: S123RDIP-S340D805U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	392.3	392.4	389.8	384.6	379.3	374.1	368.9
115°	454.0	455.7	456.9	457.6	458.3	459.0	459.7
117.5°	508.0	509.3	510.1	510.3	510.4	510.5	510.7
120°	543.6	545.0	545.7	545.7	545.7	545.7	545.7
122.5°	578.0	579.0	579.5	579.7	579.8	580.0	580.1
125°	626.5	626.8	627.2	627.5	627.9	628.2	628.6
127.5°	675.9	676.4	676.5	676.2	675.9	675.5	675.2
130°	705.7	706.4	706.6	706.2	705.9	705.5	705.2
132.5°	733.8	734.5	734.6	734.2	733.7	733.2	732.7
135°	776.3	776.8	776.8	776.3	775.8	775.3	774.8
137.5°	814.6	815.5	815.7	815.4	815.0	814.7	814.3
140°	838.6	839.3	839.5	839.1	838.8	838.4	838.1
142.5°	861.3	861.9	861.9	861.4	860.9	860.5	860.0
145°	893.1	893.4	893.6	893.6	893.6	893.6	893.6
147.5°	921.7	922.0	921.8	921.0	920.2	919.4	918.6
150°	939.2	939.5	939.5	938.9	938.4	937.9	937.4
152.5°	955.0	955.7	955.6	954.8	954.0	953.2	952.4
155°	976.7	977.6	977.5	976.5	975.4	974.4	973.3
157.5°	995.5	996.6	996.4	995.1	993.7	992.4	991.0
160°	1006.2	1007.2	1007.1	1005.9	1004.7	1003.5	1002.3
162.5°	1016.0	1017.1	1017.2	1016.1	1015.0	1014.0	1012.9
165°	1029.1	1030.5	1030.6	1029.4	1028.1	1026.9	1025.7
167.5°	1039.1	1040.5	1040.5	1039.1	1037.7	1036.3	1034.9
170°	1044.7	1046.1	1046.1	1044.7	1043.3	1042.0	1040.6
172.5°	1048.5	1049.9	1049.8	1048.3	1046.8	1045.2	1043.7
175°	1052.8	1054.0	1053.9	1052.6	1051.2	1049.8	1048.4
177.5°	1054.4	1055.5	1055.4	1054.0	1052.6	1051.2	1049.8
180°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3

(END OF REPORT)